



**PLC**  
**+HMI**  
ALL IN ONE™

# One Integrated Solution for Control & Automation

**Powerful Software | Full Range of PLCs | Complete Line of VFDs**

**Outstanding Support**

# About Unitronics

Unitronics designs, manufactures, and markets advanced control and automation solutions. Our extensive offering includes a complete line of PLCs with integrated HMI, full line of VFDs, a broad array of I/Os and complementary devices, as well as programming software for all aspects of control, motion, HMI, and communications.

Unitronics PLCs range from micro-PLC + HMI units for simple machine control, to complex controllers with advanced functions, a variety of onboard IOs and multiple communication options – including support for Industry 4.0 (smart factory) technology.

Easy to use, efficient, and affordable, our products have been automating processes, systems and standalone applications since 1989. Today, our field-proven products automate hundreds of thousands of installations in diverse fields, including petrochemicals, automotive, food processing, plastics & textiles, energy & environment, water & waste water management – anywhere automated processes are required.

Unitronics is represented by more than 160 distributors in over 55 countries around the globe, providing our customers with local support in their local languages.

## Unitronics Benefits:

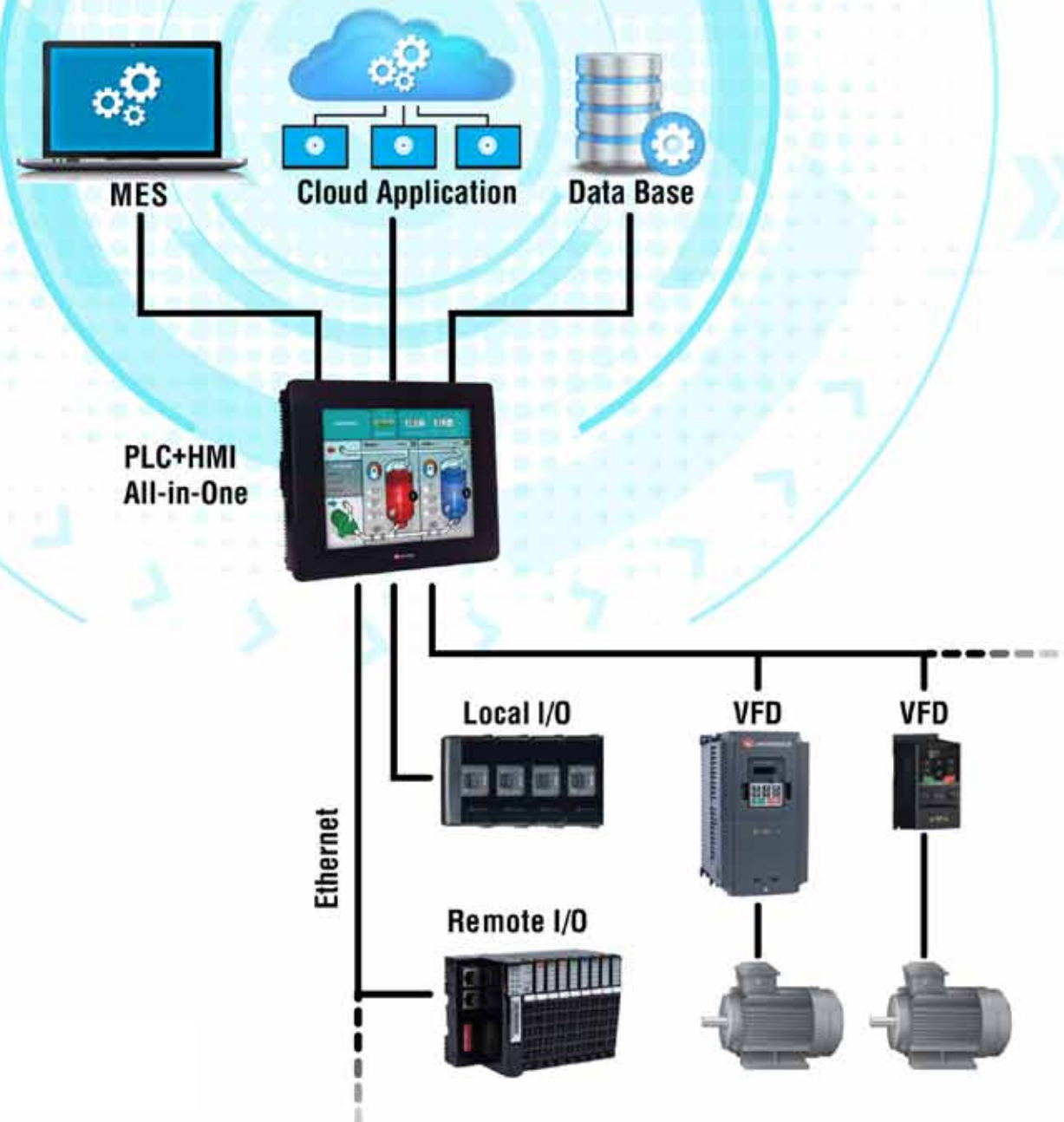
- **Full Product Range:** PLC + HMI controllers, I/Os, and VFDs to meet all application needs.  
All software and utilities are provided at no additional charge
- **All-in-One Software:** Configure and program PLC, HMI, VFD, and all other components in one easy environment
- **Industry 4.0:** SNMP, FTP, e-mail, SMS, GPRS/GSM, Remote Access via VNC Client / built-in Webserver, SQL & MQTT
- **Rich Features:** Auto-tuned PID, datalogging, Recipes, HMI Trends & Gauges, Alarms, multi-level passwords, multi-language support, Dacom via CANopen, CAN Layer2, MODBUS, EtherNetIP and more
- **Outstanding Support:** Unitronics exceeds the industry standard for customer care. You benefit from personalized, expert sales and technical support without fees or tiers
- **Customized Solutions:** Products tailored-made according to specifications



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This catalog provides a general overview of Unitronics products. Before you place an order, please check the complete technical specifications for each product, located in the Unitronics website.

# One Integrated Solution for Control and Automation



## Complete Range of PLC+HMI

- Powerful, Multi-function Controllers
- Up to 2048 I/Os per controller
- Quality HMI
- Field-hardened
- Award-winning

## Full Range of VFDs

- Easy to Program
- Simple to Use
- Setup & Program via Software or VFD Keypad

## All-in-One Programming Software

- Program Ladder Logic
- Design HMI & Web pages
- Configure VFDs
- Hardware & Communication Configuration
- One Easy Environment

## Total Solution for Industry 4.0

- MQTT
- SQL
- FTP
- SNMP
- Built-in Web Server
- Remote Access via VNC
- Smart Factory Technology



# UNISTREAM®

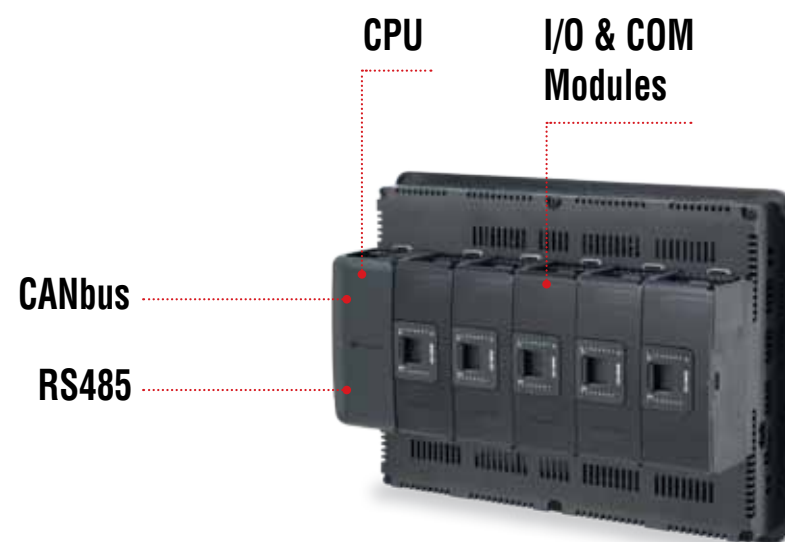
## Powerful Award-winning Programmable Logic Controllers

For high-end automation projects, available in two All-in-One series:  
Modular & Built-in.

### UniStream® Modular

**Create a custom control solution, perfectly matched to your requirements**

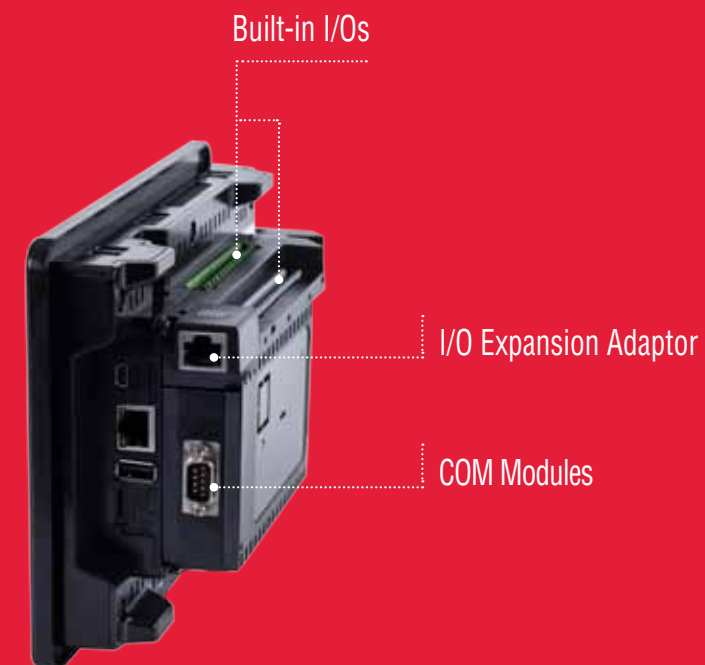
Uniquely designed to enable you to create a customized controller in three steps: select an HMI panel, snap in a CPU, and add any I/O or communication modules necessary for your specific application.



### UniStream® Built-in

**Space-saving PLC that delivers the functionality to control complex machines**

PLC+HMI+I/O built into a single, superbly compact unit in a range of built-in I/O configurations. Available in two versions: Built-in and Built-in Pro.



# UniLogic®-UniStream®

## All-in-One Programming Software

**Ultimate All-in-One programming environment:** configure hardware & communications, program Ladder, design HMI & web pages, configure & control VFDs and more.

### New! Configure & Operate...

Unitronics VFDs using the same, efficient software

### Build-it-Once...

Reuse Library: Functions, HMI & Webpages

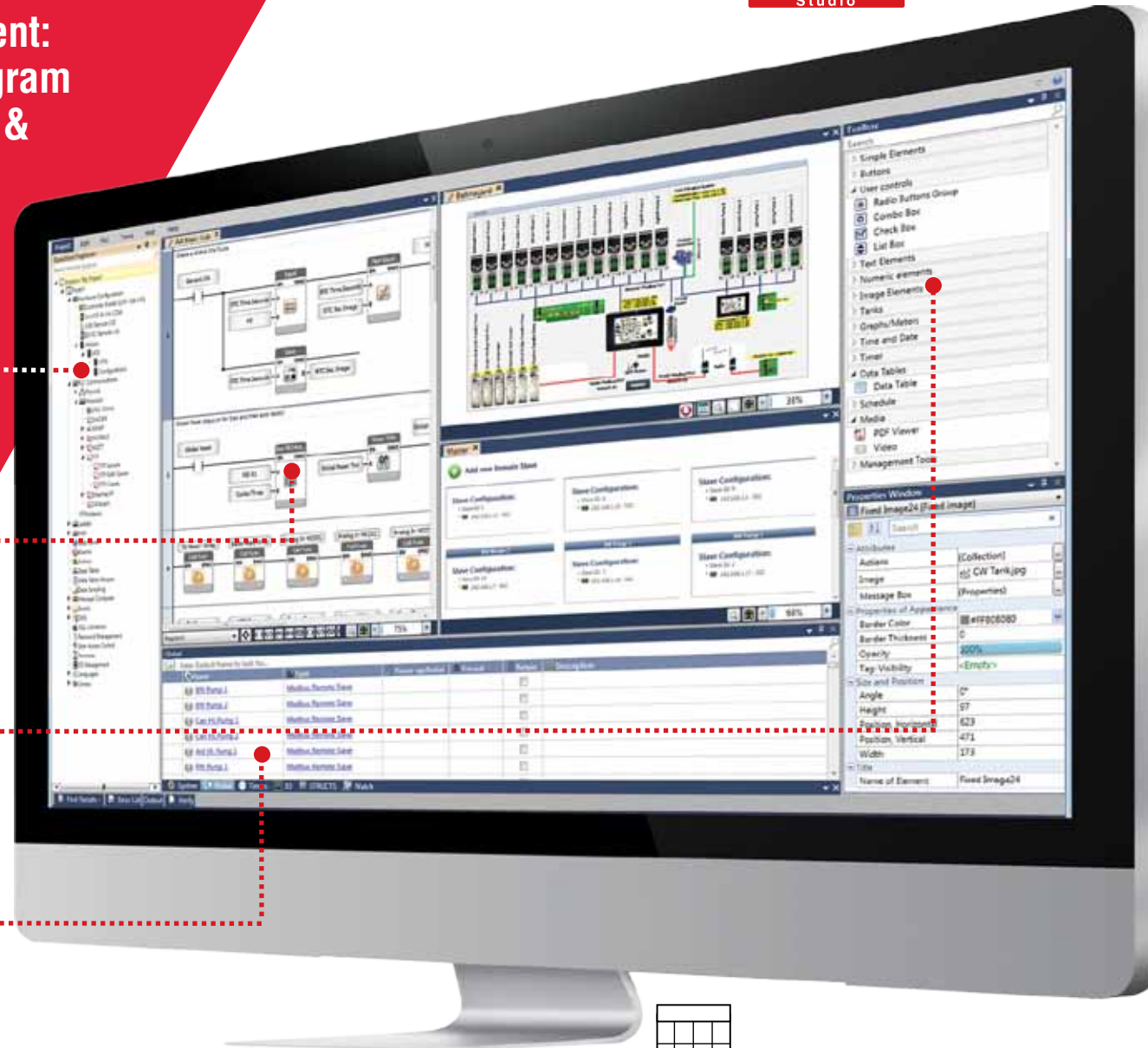
### Context-sensitive...

Toolbox for Ladder, HMI & Web Elements

### Power from C...

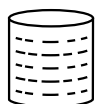
Structs & C Functions

**UniLogic®**  
Studio



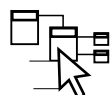
#### MQTT

Via MQTT, UniStream bridges between the production floor all the way up to the MES. Supports MQTT as a 'client' that can both publish and subscribe to messages.



#### Structs - Tag Database on Steroids

You create Structs - groups of data tags of different types organized into a single, logical unit - and reuse them across programs, especially with UDFBs (User Defined Function Blocks). UniLogic's built-in Structs enable you to configure and control hardware and complex functions such as Communications and PID.



#### Speed Ladder Programming - plus "C" Power

Build your Ladder: drag & drop elements that snap into place, error-free. Use the built-in C Function editor to write C functions. UniLogic means you 'write-it-once': create code to use, reuse, and export across projects.

Create UDFBs (User Defined Function Blocks) - self-contained functions for tasks such as oven control.



#### Power Data Tools - Data Sampler, Data Tables, Recipes, SQL

Data Samplers record dynamic application data, such as output values, at fixed intervals into files and display it as Trend graphs on the HMI. Data Tables organize and manipulate data via Ladder, create data logs, implement Recipes, import/export values from/to Excel, allow users to enter/edit data into Data Tables via HMI panel, and more.

NEW SQL Connector: Access SQL databases, run Queries, connect Data Tables to SQL.



#### Web Server: Web Pages - No HTML Required

Design elegant web pages via a drag & drop interface, identical to the HMI editor.

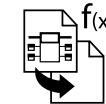
A rich graphic library is at your disposal.

The Web toolbox offers user controls and widgets, enabling the end user to view and enter application data via any web browser.



#### Design Beautiful HMI Displays - Stream Video, Audio, PDF

UniLogic's extensive free graphics library & HMI widgets enable you to be a graphic artist. The easy HMI editor supports layers, image transparency, overlap, rotation--plus drag & drop widgets, Video & Audio players, Data Tables, Trend graphs & Gauges to display run-time values, and more.



#### Build-it-Once, then Reuse - the Ultimate Time Saver

Add your UDFBs, HMI screens, HMI Custom Controls, and Web Pages to the Library--then drag & drop them where needed; UniLogic takes care of the tags. Import your Library into any project, and share it with others.



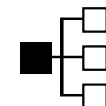
#### Languages - from Italian to Chinese at the Touch of a Button

UniLogic supports any language that you can type - including Asian languages such as Chinese, Japanese, and Korean. Instantly switch HMI language via user actions or program events.



#### Built-in Alarms - Easily Boost Application Safety

Compliant with ISA 18.2 standard guidelines for Alarm Management systems in the process industries. Detect & analyze Alarms, and take action. Export Alarm Logs via FTP to send via email, or copy directly from the controller via DOK. Alarms feature full multi-language support.



#### Communications - Configuration not Programming

Incredibly fast, easy to configure and implement, UniStream data communications run independently of Ladder.

A single PLC can contain multiple slave definitions--and multiple master definitions. Communicate with any device: plug-and-play protocols such as MODBUS, CANopen, SNMP, MQTT, and EtherNet/IP.

Use Message Composer to communicate with devices such as frequency converters and bar-code readers via any Ethernet, CANbus or serial 3rd-party protocol. Also supports CANLayer 2, FTP Client/Server, SMS, email, GSM/GPRS modem.

# UniStream® Modular

## Features:

### HMI

- Size: 7", 10.4" or 15.6"
- High quality color touchscreen. UniStream 10.4" is also available with Multi-Touch screen
- Multi-language display
- Built-in Alarm Screens
- Media support: Video, Audio and PDF viewer
- Multi-level password protection – easy and fast

### PLC

- I/O options include digital, analog, high speed, temperature, and weight measurement
- Expand locally: up to 2048 I/Os
- Expand remotely: via UniStream Ethernet-based I/O
- Auto-tune PID, up to 64 independent loops
- Recipes & data logging via data tables & sampling
- MicroSD card - log, backup, clone & more
- Function Blocks & Structs

### Communication

#### Built-in ports:

- 1 CANbus
- 2 Ethernet TCP/IP
- 1 RS485
- 2 USB host
- 1 Mini USB for programming

#### Add-on ports:

- Up to 8 RS232 (Using UAC-02RS2)
- Up to 4 RS232 + 4 RS485 (Using UAC-02RSC)

#### Protocols:

- MQTT Client
- EtherNet/IP
- MODBUS: Serial & TCP/IP
- CANopen, CANlayer2, UniCAN
- SNMP
- BACnet, KNX and M-Bus via gateway
- Message Composer for 3rd party protocols

#### General Features:

- SQL Client
- Web Server
- FTP server & client
- E-mail & SMS
- Remote access via VNC
- 3G Modem support

3 steps to an All-in-One controller: select HMI panel, add the powerful CPU, and snap on any I/O and COM modules. Expands up to 2048 I/Os.



UniStream® 7"



Available with Multi-Touch

UniStream® 10.4"



UniStream® 15.6"

|                                     | UniStream 7                                                                                                     | UniStream 10.4                      | UniStream 15.6          |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------|
| Article Number                      | USC-P-B10 • USP-070-B08/USP-070-B10                                                                             | USC-P-B10 • USP-104-B10/USP-104-M10 | USC-P-B10 • USP-156-B10 |
| I/O Options                         |                                                                                                                 |                                     |                         |
| Total supported I/Os                | 2048<br>(See I/O Expansion Modules- page 15)                                                                    |                                     |                         |
| Onboard I/O modules                 | Fit up to 3 slim or 2 wide I/Os¹                                                                                | Fit up to 5 slim or 3 wide I/Os¹    |                         |
| I/O Expansion                       | Use Local Expansion Adapters to add up to 80 slim or 50 wide modules¹                                           |                                     |                         |
| Remote I/O via Ethernet             | Use UniStream Ethernet-based Remote I/O adapters to add I/Os via Ethernet (See I/O Expansion Modules - page 16) |                                     |                         |
| Add-on COM modules                  | Supports up to 3 COM modules¹                                                                                   | Supports up to 4 COM modules¹       |                         |
| Program                             |                                                                                                                 |                                     |                         |
| Application Memory                  | 8 MB                                                                                                            |                                     |                         |
| HMI Panel                           |                                                                                                                 |                                     |                         |
| Color Touchscreen                   | Resistive, Analog                                                                                               | Resistive, Analog / Multi-Touch     | Resistive, Analog       |
| Viewing Area<br>Height x Width (mm) | USP-070-B08: 152.4 x 91.44<br>USP-070-B10: 154.08 x 85.92                                                       | 211.2 x 158.4                       | 344.23 x 193.53         |
| Cut Out<br>Height x Width (mm)      | 134.0 x 196.0                                                                                                   | 214.0 x 281.0                       | 249.0 x 395.0           |
| Resolution                          | 800 x 480 (WVGA)                                                                                                | 800 x 600 (SVGA)                    | 1366 x 768              |
| Keys                                | Virtual Keyboard                                                                                                |                                     |                         |
| Environment                         |                                                                                                                 |                                     |                         |
| Protection                          | IP66, IP65 and NEMA4X when panel-mounted²                                                                       |                                     |                         |
| Operating Temperature               | -20°C to 55°C                                                                                                   |                                     | 0°C to 50°C             |
| Standard                            | UL, CE, EAC, UL Hazardous Locations, Class I, Division 2⁴                                                       |                                     |                         |
| General                             |                                                                                                                 |                                     |                         |
| Battery                             | 4 years typical at 25°C, battery back-up for memory and RTC                                                     |                                     |                         |
| Clock                               | Real-time clock functions (date and time)                                                                       |                                     |                         |
| Power Supply                        | 12/24VDC³                                                                                                       |                                     |                         |

#### Local Expansion Adapters

|             |                                                                            |
|-------------|----------------------------------------------------------------------------|
| UAG-XK125   | Short Range Kit, 125 cm                                                    |
| UAG-XKP125  | Short Range + embedded Power Supply Kit, 125 cm                            |
| UAG-XK300   | Short Range Kit, 300 cm                                                    |
| UAG-XKP300  | Short Range Kit + embedded Power Supply, 300 cm                            |
| UAG-XKPLXXX | Long Range + embedded Power Supply, lengths: 600, 1200, 1500, 2000, 3000cm |

#### Uni-COM™ Communication Modules<sup>1</sup>

|           |                                    |
|-----------|------------------------------------|
| UAC-01RS2 | 1x RS232                           |
| UAC-02RS2 | 2x RS232                           |
| UAC-02RSC | 1x RS232 port and<br>1x RS485 port |

<sup>1</sup> Add-on Modules, I/O and COM: the total number of modules, both I/O and COM that you can snap onboard an HMI panel is limited by the size of the panel.

I/O modules are "Slim" & "Wide". 1 "Wide" I/O module = 1.5 "Slim" or COM module.

<sup>2</sup> UniStream complies with IP66 and NEMA4X only if audio-jack seal is installed. Refer to HMI panel installation guide.

<sup>3</sup> 12V applies to PLC power supply only, and not to the I/O.

<sup>4</sup> For a list of relevant models, contact Unitronics

# UniStream® Built-in

## Features:

### HMI

- Size: 5", 7"
- High quality color touchscreen
- Multi-language display
- Built-in Alarm Screens
- Media support: Video\*, Audio\* and PDF viewer
- Multi-level password protection –easy and fast

### PLC

- I/O options include digital, analog, high speed, temperature, and weight measurement
- Expand locally: up to 2048 I/Os
- Expand remotely: via UniStream Ethernet-based I/O
- Auto-tune PID, up to 64 independent loops
- Recipes & data logging via data tables & sampling
- MicroSD card - log, backup, clone & more
- Function Blocks & Structs

## Communication

### Built-in ports:

- 1 Ethernet TCP/IP
- 1 USB host
- 1 Mini USB for programming

### Add-on ports:\*\*

- 1 CANbus
- 1 RS485
- 1 RS232

### Protocols:

- MQTT Client
- EtherNet/IP
- MODBUS TCP
- CANopen, CANlayer2, UniCAN
- SNMP
- BACnet, KNX and M-Bus via gateway
- Message Composer for 3rd party protocols

### General Features:

- SQL Client\*
- Web Server\*
- E-mail & SMS
- Remote access via VNC
- FTP server & client
- 3G Modem support

\* Pro version only. Model numbers including B5 refer to Built-in, B10 to Built-in Pro.  
\*\* Up to 2 serial modules and one CANbus module.

Powerful PLC in a superbly compact hardware profile: PLC+HMI+I/Os built into one single unit. Available in two versions: Built-in and Built-in Pro. Expands up to 2048 I/Os.



UniStream® 5"



UniStream® 7"

|                                     | UniStream 5                                                                                                        | UniStream 7 |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------|
| <b>I/O Options</b>                  |                                                                                                                    |             |
| Total supported I/Os                | 2048                                                                                                               |             |
| Built-In                            | According to model<br>(See Built-in I/Os configurations- page 14)                                                  |             |
| I/O Expansion                       | Add Local I/O via expansion port<br>(See I/O Expansion Modules - page 15) <sup>1</sup>                             |             |
| Remote I/O via Ethernet             | Use UniStream Ethernet-based Remote I/O adapters to add I/Os via Ethernet<br>(See I/O Expansion Modules - page 16) |             |
| <b>Add-on COM Modules</b>           | Add up to 3 COM modules <sup>2</sup>                                                                               |             |
| <b>Program</b>                      |                                                                                                                    |             |
| Application Memory                  | 8 MB                                                                                                               |             |
| <b>HMI Panel</b>                    |                                                                                                                    |             |
| Color Touchscreen                   | Resistive, Analog                                                                                                  |             |
| Viewing Area<br>Height x Width (mm) | 108 x 64.8                                                                                                         |             |
| Cut Out<br>Height x Width (mm)      | 93.2 x 148.2                                                                                                       |             |
| Resolution<br>Height x Width (mm)   | 800 x 480 (WVGA)                                                                                                   |             |
| Keys                                | Virtual Keyboard                                                                                                   |             |
| <b>Environment</b>                  |                                                                                                                    |             |
| Protection                          | IP66, IP65 and NEMA4X                                                                                              |             |
| Operating Temperature               | -20°C to 55°C                                                                                                      |             |
| Standard                            | CE, UL, EAC <sup>3</sup>                                                                                           |             |
| <b>General</b>                      |                                                                                                                    |             |
| Battery                             | 4 years typical at 25°C, battery back-up for memory and RTC                                                        |             |
| Clock                               | Real-time clock functions (date and time)                                                                          |             |

### Local Expansion Adapters

|               |                               |
|---------------|-------------------------------|
| UAG-CX-XKP125 | UniStream CX IO Exp.Kit 1.25m |
| UAG-CX-XKP300 | UniStream CX IO Exp.Kit 3m    |

### Uni-COM™ Communication Modules

|              |                         |
|--------------|-------------------------|
| UAC-CX-01RS2 | Uni-COM: 1x RS232 port  |
| UAC-CX-01RS4 | Uni-COM: 1x RS485 port  |
| UAC-CX-01CAN | Uni-COM: 1x CANbus port |

<sup>1</sup> UniStream 5" I/O Expansion: the first unit plugged into the I/O expansion jack must be from the CX series I/O expansion - UAG-CX-XKP125 or UAG-CX-XKP300. The CX end unit may be followed by Uni-I/O modules or UAG-XKPLxxx adapters.  
<sup>2</sup> Up to 2 serial modules and one CANbus module.  
<sup>3</sup> For a list of relevant models, contact Unitronics.

UniStream Built-in I/O Configurations

| Article*                                                       | Summary                                                                                                                                         | Inputs             |                                |                                           |                                                              | Outputs                            |                  |       |                                                         | Operating Voltage |
|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------|-------------------------------------------|--------------------------------------------------------------|------------------------------------|------------------|-------|---------------------------------------------------------|-------------------|
|                                                                |                                                                                                                                                 | Digital (Isolated) | HSC/Shaft-encoder <sup>1</sup> | Analog                                    | Temperature inputs, RTD/TC                                   | Transistor <sup>2</sup> (Isolated) | PWM <sup>2</sup> | Relay | Analog                                                  |                   |
| US5-B5-B1<br>US5-B10-B1<br><br>US7-B5-B1<br>US7-B10-B1         | No built-in I/Os                                                                                                                                | -                  | -                              | -                                         | -                                                            | -                                  | -                | -     | -                                                       | 12/24VDC          |
| US5-B5-TR22<br>US5-B10-TR22<br><br>US7-B5-TR22<br>US7-B10-TR22 | 10 Digital Inputs, 2 Analog Inputs, 2 Transistor Outputs, npn, including 2 PWM Outputs. 8 Relay Outputs                                         | 10 Sink/Source     | -                              | 2 0-10V, 0-20mA, 4-20mA 12-bit            | -                                                            | 2 Sink (npn)                       | 2 30kHz          | 8     | -                                                       | 24VDC             |
| US5-B5-T24<br>US5-B10-T24<br><br>US7-B5-T24<br>US7-B10-T24     | 10 Digital Inputs, 2 Analog Inputs, 12 Transistor Outputs, pnp, including 2 PWM Outputs                                                         | 10 Sink/Source     | -                              | 2 0-10V, 0-20mA, 4-20mA 12-bit            | -                                                            | 12 Source (pnp)                    | 2 3kHz           | -     | -                                                       | 24VDC             |
| US5-B5-RA28<br>US5-B10-RA28<br><br>US7-B5-RA28<br>US7-B10-RA28 | 14 Digital Inputs, including 2 HSC, 2 Analog Inputs, 2 Temperature Inputs, 8 Relay Outputs, 2 Analog Outputs                                    | 14 Sink/Source     | 2 90kHz 32-bit                 | 2 (isolated) 0-10V, 0-20mA, 4-20mA 14-bit | 2 (isolated) Thermocouple, PT100/Ni100/ Ni120/ PT1000/Ni1000 | -                                  | -                | 8     | 2 0-10V 12-bit, ±10V, 11-bit+sign 0-20mA, 4-20mA 12-bit | 24VDC             |
| US5-B5-TA30<br>US5-B10-TA30<br><br>US7-B5-TA30<br>US7-B10-TA30 | 14 Digita Inputs, including 2 HSC, 2 Analog Inputs, 2 Temperature Inputs, 10 Transistor outputs, pnp, including 2 PWM Outputs, 2 Analog Outputs | 14 Sink/Source     | 2 90kHz 32-bit                 | 2 (isolated) 0-10V, 0-20mA, 4-20mA 14-bit | 2 (isolated) Thermocouple, PT100/Ni100/ Ni120/ PT1000/Ni1000 | 10 Source (pnp)                    | 2 3kHz           | -     | 2 0-10V 12-bit, ±10V 11-bit+sign 0-20mA, 4-20mA 12-bit  | 24VDC             |
| US5-B5-R38<br>US5-B10-R38<br><br>US7-B5-R38<br>US7-B10-R38     | 24 Digital Inputs, including 4 HSC, 2 Analog Inputs, 12 relay Outputs                                                                           | 24 Sink/Source     | 4 90kHz 32-bit                 | 2 0-10V, 0-20mA, 4-20mA 12-bit            | -                                                            | -                                  | -                | 12    | -                                                       | 24VDC             |
| US5-B5-T42<br>US5-B10-T42<br><br>US7-B5-T42<br>US7-B10-T42     | 24 Digital Inputs, including 4 HSC, 2 Analog Inputs, 16 Transistor Outputs, pnp, including 2 PWM Outputs                                        | 24 Sink/Source     | 4 90kHz 32-bit                 | 2 0-10V, 0-20mA, 4-20mA 12-bit            | -                                                            | 16 Source (pnp)                    | 2 3kHz           | -     | -                                                       | 24VDC             |

\*Models R38+T42, as well as all standard (B5) models will be soon UL certified.  
<sup>1</sup> Note that the high-speed inputs are included in the total number of digital inputs.  
<sup>2</sup> Note that the PWM outputs are included in the total number of transistor outputs.

Expand Locally via Uni-I/O™

UniStream Modular & Built-in - Expand up to 2048 I/O via Uni-I/O modules.

|                        | Article Number           | Inputs                |                                |                                                  |                                                     | Outputs                                               |                                     |           |                                                                           |
|------------------------|--------------------------|-----------------------|--------------------------------|--------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------|-------------------------------------|-----------|---------------------------------------------------------------------------|
|                        |                          | Digital (Isolated)    | HSC/Shaft-encoder <sup>4</sup> | Analog                                           | Temperature Measurement                             | Transistor <sup>5</sup> (Isolated)                    | PWM/ HSO <sup>5</sup>               | Relay     | Analog                                                                    |
| Digital                | UID-1600                 | <b>16</b> Sink/Source | —                              | —                                                | —                                                   | —                                                     | —                                   | —         | —                                                                         |
|                        | UID-0808T                | <b>8</b> Sink/Source  | —                              | —                                                | —                                                   | <b>8</b> Source(pnp)                                  | —                                   | —         | —                                                                         |
|                        | UID-W1616T <sup>3</sup>  | <b>16</b> Sink/Source | —                              | —                                                | —                                                   | <b>16</b> Source(pnp)                                 | —                                   | —         | —                                                                         |
|                        | UID-0808THS <sup>1</sup> | <b>8</b> Sink/Source  | <b>2</b> 250kHz 32-bit         | —                                                | —                                                   | <b>8</b> Source(pnp)                                  | <b>2</b> <sup>2</sup> 250kHz 2 3kHz | —         | —                                                                         |
|                        | UID-0016T                | —                     | —                              | —                                                | —                                                   | <b>16</b> Source(pnp)                                 | —                                   | —         | —                                                                         |
|                        | UID-0808R                | <b>8</b> Sink/Source  | —                              | —                                                | —                                                   | —                                                     | —                                   | <b>8</b>  | —                                                                         |
|                        | UID-W1616R <sup>3</sup>  | <b>16</b> Sink/Source | —                              | —                                                | —                                                   | —                                                     | —                                   | <b>16</b> | —                                                                         |
|                        | UID-0016R                | —                     | —                              | —                                                | —                                                   | —                                                     | —                                   | <b>16</b> | —                                                                         |
| Analog and Temperature | UIA-0006                 | —                     | —                              | —                                                | —                                                   | —                                                     | —                                   | —         | <b>6</b> (Isolated) 0-10V 14-bit, ±10V 13-bit+sign, 0-20mA, 4-20mA 13-bit |
|                        | UIA-0402N                | —                     | —                              | <b>4</b> 0-10V, 0-20mA, 4-20mA 13-bit            | —                                                   | —                                                     | —                                   | —         | <b>2</b> 0-10V 14-bit, ±10V 13-bit+sign, 0-20mA, 4-20mA 13-bit            |
|                        | UIA-0800N                | —                     | —                              | <b>8</b> 0-10V, 0-20mA, 4-20mA 13-bit            | —                                                   | —                                                     | —                                   | —         | —                                                                         |
|                        | UIA-0800NH (coming soon) | —                     | —                              | <b>8</b> 0-20mA, 4-20mA With HART communication  | —                                                   | —                                                     | —                                   | —         | —                                                                         |
|                        | UIS-04PTN                | —                     | —                              | —                                                | <b>4</b> PT100/Ni100/Ni120                          | —                                                     | —                                   | —         | —                                                                         |
|                        | UIS-04PTKN               | —                     | —                              | —                                                | <b>4</b> PT1000/Ni1000/Ni1200                       | —                                                     | —                                   | —         | —                                                                         |
|                        | UIS-08TC                 | —                     | —                              | —                                                | <b>8</b> (Isolated) Thermocouple                    | —                                                     | —                                   | —         | —                                                                         |
| Digital/Analog         | UIS-WCB1 <sup>1,3</sup>  | <b>10</b> Sink/Source | <b>2</b> 10kHz 32bit           | <b>2</b> (Isolated) 0-10V, 0-20mA, 4-20mA 14-bit | <b>2</b> (Isolated) Thermocouple, PT100/Ni100/Ni120 | <b>2</b> <sup>2</sup> Sink (npn)                      | <b>2</b> 250kHz                     | <b>8</b>  | <b>2</b> 0-10V 14-bit, ±10V 13-bit+sign, 0-20mA, 4-20mA 13-bit            |
|                        | UIS-WCB2 <sup>1,3</sup>  | <b>10</b> Sink/Source | <b>2</b> 10kHz 32bit           | <b>2</b> (Isolated) 0-10V, 0-20mA, 4-20mA 14-bit | <b>2</b> (Isolated) Thermocouple, PT100/Ni100/Ni120 | <b>8</b> Source (pnp) <b>2</b> <sup>2</sup> Sink(npn) | <b>2</b> 250kHz (Sink outputs only) | —         | <b>2</b> 0-10V 14-bit, ±10V 13-bit+sign, 0-20mA, 4-20mA 13-bit            |

<sup>1</sup> This module utilizes two high speed blocks that can each be assigned either to the inputs or to the outputs.  
<sup>2</sup> 2 outputs are high-speed, up to 250kHz: function as normal or high-speed PWM (same freq. and different duty-cycles). 2 outputs are normal speed: function as normal-speed PWM outputs (same freq. and same duty cycle).  
<sup>3</sup> Width: 1 "wide" I/O module = 1.5 "slim" I/O modules  
<sup>4</sup> Note that the high-speed inputs are included in the total number of digital inputs.  
<sup>5</sup> Note that the high-speed outputs are included in the total number of digital outputs.  
<sup>6</sup> Not isolated

DIN Rail Power Supplies

|            |              |
|------------|--------------|
| UAP-24V24W | 24W 24V 1A   |
| UAP-24V60W | 60W 24V 2.5A |
| UAP-24V96W | 96W 24V 4A   |

Modems

|                |                                 |
|----------------|---------------------------------|
| GSM-KIT-17J-3G | Cinterion GPRS modem, EHS6T, 3G |
|----------------|---------------------------------|



# Remote I/O

- Ethernet based
- Up to 63 I/O modules per adapter
- Slim modules - only 12mm
- 16--bit Analog Resolution
- Operating temperature:-40°C to 70°C



## Remote I/O Adapter

| Article Number | Description                          |
|----------------|--------------------------------------|
| URB-TCP        | UniStream Remote IO Ethernet Adapter |

## Input Modules

| Article                 | Description                              | Digital | HSC/Shaft encoder | Analog | Temperture Mesurements |
|-------------------------|------------------------------------------|---------|-------------------|--------|------------------------|
| URD-0800                | 8 Digital inputs (sink or source), 10RTB | 8       | -                 | -      | -                      |
| URA-04000               | 4 Analog Current Inputs 12bit, 10RTB     | -       | -                 | 4      | -                      |
| URA-08000               | 8 Analog Current Inputs 12bit, 10RTB     | -       | -                 | 8      | -                      |
| URA-0400P               | 4 Analog Voltage Inputs 12bit, 10RTB     | -       | -                 | 4      | -                      |
| URA-0800P               | 8 Analog Voltage Inputs 12bit, 10RTB     | -       | -                 | 8      | -                      |
| URA-0400T               | 4 Analog Current Inputs 16bit, 10RTB     | -       | -                 | 4      | -                      |
| URA-0400U               | 4 Analog Voltage Inputs 16bit, 10RTB     | -       | -                 | 4      | -                      |
| URS-04TC (Coming soon)  | 4 Thermocouple, 10RTB                    | -       | -                 | -      | 4                      |
| URS-04RT (Coming soon)  | 4 RTD, 10RTB                             | -       | -                 | -      | 4                      |
| URD-0400C (Coming soon) | 4 Digital inputs, 240VAC, 10RTB          | 4       | -                 | -      | -                      |
| URD-0400B (Coming soon) | 4 Digital inputs, 120VAC, 10RTB          | 4       | -                 | -      | -                      |
| URD-0200D (Coming soon) | 2 Shaft Encoder, 10RTB                   | -       | 2                 | -      | -                      |
| URD-0200E (Coming soon) | 2 High Speed Counter, 10RTB              | -       | 2                 | -      | -                      |

## Output Modules

| Article                  | Description                                  | Outputs    |       |        |
|--------------------------|----------------------------------------------|------------|-------|--------|
|                          |                                              | Transistor | Relay | Analog |
| URD-0004RH               | 4 Relay Outputs, 10RTB                       | -          | -     | -      |
| URD-0008NH               | 8 Digital Outputs (Sink), 10RTB              | 8 (Sink)   | -     | -      |
| URD-0008CH               | 8 Digital Outputs (Source), 10RTB            | 8 (Source) | -     | -      |
| URA-0004W                | 4 Analog Current Outputs 12bit, 10RTB        | -          | -     | 4      |
| URA-0008W                | 8 Analog Current Outputs 12bit, 10RTB        | -          | -     | 8      |
| URA-0004X                | 4 Analog Voltage Outputs 12bit, 10RTB        | -          | -     | 4      |
| URA-0008X                | 8 Analog Voltage Outputs 12bit, 10RTB        | -          | -     | 8      |
| URA-0004Y                | 4 Analog Current Outputs 16bit, 10RTB        | -          | -     | 4      |
| URA-0004Z                | 4 Analog Voltage Outputs 16bit, 10RTB        | -          | -     | 4      |
| URD-0004SN (Coming soon) | 4 Solid State Relay, 24VDC/VAC, 2A, 10RTB    | -          | 4     | -      |
| URD-0004SM (Coming soon) | 4 Solid State Relay, 110VDC/VAC, 1A, 10RTB   | -          | 4     | -      |
| URD-0004SK (Coming soon) | 4 Solid State Relay, 240VDC/VAC, 0.5A, 10RTB | -          | 4     | -      |

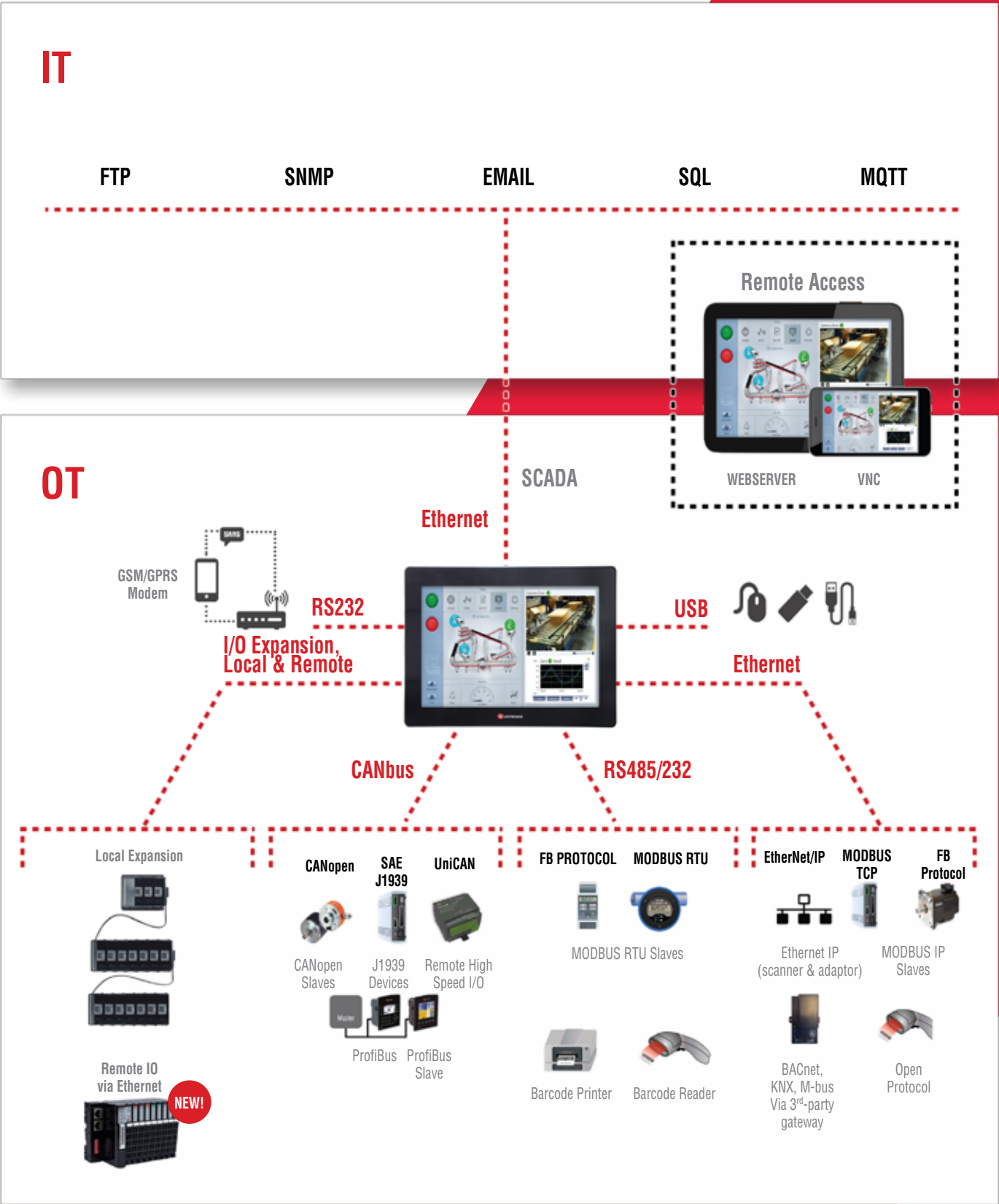
## Power Module

| Article Number         | Description                              |
|------------------------|------------------------------------------|
| URP-PS24V <sup>1</sup> | Input 24VDC, Output system Power 5VDC/1A |

<sup>1</sup> To be used when the required system current exceeds 1.5A

# From OT to IT

## Bridge the Gap with UNISTREAM® series



# VisiLogic™ - Vision™ and Samba™

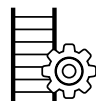
## All-in-One programming software

A single, intuitive environment for all your application needs



### Hardware Configuration

Intuitive set up: controller, I/Os, and COM channels



### Ladder Programming

Rapidly drag & drop elements and Function Blocks



### HMI Application

Create beautiful HMI displays – includes rich image library



### Alarms: Built-in Screens

Effectively alert staff via Alarm screens



### Languages - String Library

Instantly switch HMI language via screen touch



### Data Tables

Create logs, import/export data, implement recipes



### Trend Graphs

Display dynamic values in real-time



### Web Server

Display and edit application values via browser



Software features vary according to controller model

## Smart Utilities – Remote Access, Efficient Data Management, and more

| Utility Name                                    | Function                                                                                                         | Key Features                                                                                                                                                                                                                                                      | Targeted Users                                                                                                                                                                             |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Remote Access</b><br>                        | View and control a PLC directly from PC, via local or remote connection                                          | <ul style="list-style-type: none"><li>View an HMI panel: use the PC keyboard + mouse to run the HMI application</li><li>Operand and Data Table values: view values during runtime, import and export values to/from Excel/.csv files</li></ul>                    | <ul style="list-style-type: none"><li>Operators requiring Remote Access</li><li>System integrators: remote debugging, troubleshooting, fault-finding</li></ul>                             |
| <b>Remote Operator</b><br>                      | Simultaneously view and operate the HMI panels of multiple PLCs in multiple locations                            | <ul style="list-style-type: none"><li>Easily place HMI panels side-by-side to monitor distributed systems or applications in several locations</li><li>Run the HMI applications via PC keyboard + mouse</li></ul>                                                 | <ul style="list-style-type: none"><li>Control room operators</li><li>Installation managers</li></ul>                                                                                       |
| <b>DataXport</b><br>                            | Create Data Logs from Data Tables and operand values in PLCs                                                     | <ul style="list-style-type: none"><li>Harvest data from multiple PLCs on demand or according to time/date</li><li>Export the data to ± Excel/.csv files</li><li>Automatically email files</li></ul>                                                               | <ul style="list-style-type: none"><li>Data analysts</li><li>Plant managers</li><li>Process engineers</li></ul>                                                                             |
| <b>UniDownload Designer</b><br>                 | Create compressed VisiLogic / U90Ladder applications(.udc files) for secure installation in local or remote PLCs | <ul style="list-style-type: none"><li>Prevent end-users from uploading and opening the application</li><li>Include an OS to be installed at download Set a download channel, restrict end-user actions after installation and more</li></ul>                      | OEMs / System Integrators can: <ul style="list-style-type: none"><li>Protect source code</li><li>Enable customers to install an application without using VisiLogic or U90Ladder</li></ul> |
| <b>Download Manager &amp; UniDownloader</b><br> | Securely install .udc applications in local or remote PLCs                                                       | <ul style="list-style-type: none"><li>Download Manager: installs the same application in multiple PLCs</li><li>UniDownloader: installs an application in a single PLC</li></ul>                                                                                   | <ul style="list-style-type: none"><li>OEMs / System Integrators in installations with high security requirements</li></ul>                                                                 |
| <b>SD Card Suite</b><br>                        | Remotely access and manage SD cards and their data                                                               | <ul style="list-style-type: none"><li>Browse a remote PLC's SD card</li><li>Read/write data, including Data Table files</li><li>View SD card contents - Trends, logs, alarm history, data tables - export to Excel</li></ul>                                      | <ul style="list-style-type: none"><li>Data analysts</li><li>Plant managers</li><li>Process engineers</li></ul>                                                                             |
| <b>UniVision Licensing</b><br>                  | Safeguard your PLC application security                                                                          | <ul style="list-style-type: none"><li>Embeds unique licenses in the PLC, which enables application to run only on a licensed PLC</li><li>Option to activate or deactivate different sections of your application</li><li>Prevents theft of applications</li></ul> | <ul style="list-style-type: none"><li>System integrators</li><li>OEMs</li></ul>                                                                                                            |
| <b>UniOPC Server</b><br>                        | Exchange data between Unitronics PLCs and OPC-supported software                                                 | <ul style="list-style-type: none"><li>Create channel to connect PLCs to SCADA systems, such as plant control rooms</li><li>Compliant with the OPC foundation standards</li></ul>                                                                                  | Control room operators                                                                                                                                                                     |
| <b>UniDDE</b><br>                               | Exchange data with Windows based applications                                                                    | Enables data exchange between Unitronics PLCs and software that supports Microsoft's Dynamic Data Exchange protocols, like Excel                                                                                                                                  | Control rooms operators                                                                                                                                                                    |
| <b>Programming tools for developers</b><br>     | Easily implement communication between PLC & PC applications                                                     | Using ActiveX & .NET communication drivers                                                                                                                                                                                                                        | Developers                                                                                                                                                                                 |

# VISION 1210™/1040™

## Features:

### HMI

- Size: 12.1" and 10.4"
- High quality color touchscreen
- Multi-language display
- Built-in Alarm Screens

### PLC

- I/O options include digital, analog, high speed, temperature, and weight measurement
- Expand up to 1000 I/Os
- Auto-tune PID, up to 24 independent loops
- Recipe programs and data logging via data tables
- MicroSD card - log, backup, clone & more
- Function Blocks

### Communication

#### Built-in ports:

- 1 Mini USB for programming
- 1 CANbus
- 2 Isolated RS485/RS232

#### Add-on ports:

- 1 Serial/Ethernet

#### Protocols:

- MODBUS TCP
- SNMP V1
- CANopen, CANlayer2, UniCAN
- BACnet, KNX and M-Bus via gateway
- FB Protocol: for any 3rd party protocol

#### General Features:

- Web server
- E-mail & SMS
- Remote access utilities
- 3G Modem support

Advanced PLC with a built-in 12.1"/10.4" high-resolution color touch screen.  
Snap in I/Os to expand up to 1000 I/Os.



V1210



V1040



### Snap-in I/O

Plugs directly into the back of your PLC

|                             | Vision 1040                                                                                                                                                                                                                                        | Vision 1210                                |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Article Number              | V1040-T20B                                                                                                                                                                                                                                         | V1210-T20BJ                                |
| I/O Options                 |                                                                                                                                                                                                                                                    |                                            |
| Total supported I/Os        | 1000                                                                                                                                                                                                                                               |                                            |
| I/O Expansion               | Snap-in I/O Modules plug directly into the back of the Vision unit (See Snap-in I/O Modules- page 37). Local or Remote I/Os may be added via expansion port or via CANbus (See I/O Expansion Modules- page 36).                                    |                                            |
| Local I/O Expansion         | Use Local Expansion Adapters to add up to 8 modules                                                                                                                                                                                                |                                            |
| Remote I/O Expansion        | Use EX-RC1 adapters to further extend the number of I/Os¹                                                                                                                                                                                          |                                            |
| Program                     |                                                                                                                                                                                                                                                    |                                            |
| Application Memory          | Application Logic: 2MB • Images: 32MB • Fonts: 1MB                                                                                                                                                                                                 |                                            |
| Scan Time                   | 9µsec per 1K of typical application                                                                                                                                                                                                                |                                            |
| Memory Operands             | 8192 coils, 4096 registers, 512 long integers (32 bit), 256 double words (32 bit unsigned), 64 floats, 384 timers (32_bit), 32_counters<br>Additional non-retainable operands: 1024 X-bits, 512 X-integers, 256 X-long integers, 64 X-double words |                                            |
| HMI Panel                   |                                                                                                                                                                                                                                                    |                                            |
| Color Touchscreen           | Resistive, Analog                                                                                                                                                                                                                                  |                                            |
| Cut Out Height x Width (mm) | 230 x 274                                                                                                                                                                                                                                          | 228.5 x 297                                |
| Resolution                  | 800 x 600 (SVGA)                                                                                                                                                                                                                                   |                                            |
| Keys                        | 9 programmable function keys                                                                                                                                                                                                                       | Virtual Keyboard                           |
| Environment                 |                                                                                                                                                                                                                                                    |                                            |
| Protection                  | IP65 / NEMA4X (when panel mounted)                                                                                                                                                                                                                 | IP66, IP65 and NEMA4X (when panel mounted) |
| Operating Temperature       | 0 to 50°C                                                                                                                                                                                                                                          |                                            |
| Standards                   | UL, CE, EAC, UL Hazardous Locations, Class I, Division 2²                                                                                                                                                                                          |                                            |
| General                     |                                                                                                                                                                                                                                                    |                                            |
| Battery                     | 7 years typical at 25°C, battery back-up for all memory sections and RTC                                                                                                                                                                           |                                            |
| Clock                       | Real-time clock functions (date and time)                                                                                                                                                                                                          |                                            |
| Power Supply                | 12/24VDC³                                                                                                                                                                                                                                          |                                            |

<sup>1</sup> EX-RC1: via CANbus, integrate standard Unitronics' I/O modules at distances of up to 1000m.

<sup>2</sup> For a list of relevant models, contact Unitronics.

<sup>3</sup> 12V applies to PLC power supply only, and not to the I/O.

“I’ve not yet encountered a job that a Unitronics PLC was unable to cover.”

Timothy Moulder,  
Engineer at Black & Decker

# VISION 700™

## Features:

### HMI

- Size: 7"
- High quality color touchscreen
- Multi-language display
- Built-in Alarm Screens

### PLC

- I/O options include digital, analog, high speed, temperature, and weight measurement
- Expand up to 1000 I/Os
- Auto-tune PID, up to 24 independent loops
- Recipe programs and data logging via data tables
- MicroSD card - log, backup, clone & more
- Function Blocks

### Communication

#### Built-in ports:

- 1 Ethernet TCP/IP
- 1 Mini USB for programming
- 1 RS485/RS232

#### Add-on ports:

- 1 Serial/Profibus
- 1 CANbus

#### Protocols:

- MODBUS TCP
- SNMP V1
- CANopen, CANlayer2, UniCAN
- BACnet, KNX and M-Bus via gateway
- FB Protocol: for any 3rd party protocol

#### General Features:

- Web server
- E-mail & SMS
- 3G Modem support
- Remote access utilities

Advanced PLC with a built-in  
7" high-resolution color touch screen.  
Snap in I/Os to expand up to 1000 I/Os.



V700



“Reliability, ease of use, connectivity  
and competitive prices are Unitronics’  
main strengths.”

Mr. Andrea Della Bosca,  
EV srl

|                             | Vision 700                                                                                                                                                                                                                                       |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Article Number              | V700-T20BJ                                                                                                                                                                                                                                       |
| I/O Options                 |                                                                                                                                                                                                                                                  |
| Total supported I/Os        | 1000                                                                                                                                                                                                                                             |
| I/O Expansion               | Snap-in I/O Modules plug directly into the back of the Vision unit (See Snap-in I/O Modules- page 37). Local or Remote I/Os may be added via expansion port or via CANbus (See I/O Expansion Modules- page 36).                                  |
| Local I/O Expansion         | Use Local Expansion Adapters to add up to 8 modules                                                                                                                                                                                              |
| Remote I/O Expansion        | Use EX-RC1 adapters to further extend the number of I/Os¹                                                                                                                                                                                        |
| Program                     |                                                                                                                                                                                                                                                  |
| Application Memory          | Application Logic: 2MB • Images: 40MB • Fonts: 1MB                                                                                                                                                                                               |
| Scan Time                   | 9µsec per 1K of typical application                                                                                                                                                                                                              |
| Memory Operands             | 8192 coils, 4096 registers, 512 long integers (32-bit), 256 double words (32-bit unsigned), 64 floats, 384 timers (32-bit), 32 counters. Additional non-retainable operands: 1024 X-bits, 512 X-integers, 256 X-long integers, 64 X-double words |
| HMI Panel                   |                                                                                                                                                                                                                                                  |
| Color Touchscreen           | Resistive, Analog                                                                                                                                                                                                                                |
| Cut Out Height x Width (mm) | 125 x 193                                                                                                                                                                                                                                        |
| Resolution                  | 800 x 400 (SVGA)                                                                                                                                                                                                                                 |
| Keys                        | Virtual Keyboard                                                                                                                                                                                                                                 |
| Environment                 |                                                                                                                                                                                                                                                  |
| Protection                  | IP66, IP65 and NEMA4X                                                                                                                                                                                                                            |
| Operating Temperature       | 0 to 50°C                                                                                                                                                                                                                                        |
| Standards                   | UL, CE, EAC, UL Hazardous Locations, Class I, Division 2²                                                                                                                                                                                        |
| General                     |                                                                                                                                                                                                                                                  |
| Battery                     | 7 years typical at 25°C, battery back-up for all memory sections and RTC                                                                                                                                                                         |
| Clock                       | Real-time clock functions (date and time)                                                                                                                                                                                                        |
| Power Supply                | 12/24VDC³                                                                                                                                                                                                                                        |

¹ EX-RC1: via CANbus, integrate standard Unitronics' I/O modules at distances of up to 1000m.

² For a list of relevant models, contact Unitronics.

³ 12V applies to PLC power supply only, and not to the I/O.

# VISION570™/560™

## Features:

### HMI

- Size: 5.7"
- High quality color touchscreen
- Multi-language display
- Built-in Alarm Screens

### PLC

- I/O options include digital, analog , high speed, temperature, and weight measurement
- Expand up to 1000 I/Os
- Auto-tune PID, up to 24 independent loops
- Recipe programs and data logging via data tables
- MicroSD/ SD card – log, backup, clone & more
- Function Blocks

### Communication

#### Built-in ports:

- 1 Mini USB for programming in V570
- 1 CANbus
- 2 Isolated RS485/ RS232

#### Add-on ports:

- 1 Serial/Ethernet

#### Protocols:

- MODBUS TCP
- SNMP V1
- CANopen, CANlayer2, UniCAN
- BACnet, KNX and M-Bus via gateway
- FB Protocol: for any 3rd party protocol

#### General Features:

- Web server
- E-mail & SMS
- 3G Modem support
- Remote access utilities

Advanced PLC with a built-in 5.7" high-resolution color touch screen. Snap in I/Os to expand up to 1000 I/Os.



V570



V560



“For a first time user, I had a great experience. I look forward to incorporating this brand of product on future jobs.”

Jeremy Charles Keene,  
Controls Manager at General Broach Company

|                             | Vision 570                                                                                                                                                                                                                                       | Vision 560                                                             |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Article Number              | V570-57-T20B-J                                                                                                                                                                                                                                   | V560-T25B                                                              |
| I/O Options                 |                                                                                                                                                                                                                                                  |                                                                        |
| Total supported I/Os        | 1000                                                                                                                                                                                                                                             |                                                                        |
| I/O Expansion               | Snap-in I/O Modules plug directly into the back of the Vision unit (See Snap-in I/O Modules- page 37). Local or Remote I/Os may be added via expansion port or via CANbus (See I/O Expansion Modules- page 36).                                  |                                                                        |
| Local I/O Expansion         | Use Local Expansion Adapters to add up to 8 modules                                                                                                                                                                                              |                                                                        |
| Remote I/O Expansion        | Use EX-RC1 adapters to further extend the number of I/Os <sup>1</sup>                                                                                                                                                                            |                                                                        |
| Program                     |                                                                                                                                                                                                                                                  |                                                                        |
| Application Memory          | Application Logic: 2MB • Images: 16MB • Fonts: 1MB                                                                                                                                                                                               |                                                                        |
| Scan Time                   | 9µsec per 1K of typical application                                                                                                                                                                                                              |                                                                        |
| Memory Operands             | 8192 coils, 4096 registers, 512 long integers (32-bit), 256 double words (32-bit unsigned), 64 floats, 384 timers (32-bit), 32 counters. Additional non-retainable operands: 1024 X-bits, 512 X-integers, 256 X-long integers, 64 X-double words |                                                                        |
| HMI Panel                   |                                                                                                                                                                                                                                                  |                                                                        |
| Color Touchscreen           | Resistive, Analog                                                                                                                                                                                                                                |                                                                        |
| Cut Out Height x Width (mm) | 124.5 x 182                                                                                                                                                                                                                                      | 126.0 x 209                                                            |
| Resolution                  | 320 x 240 (QVGA)                                                                                                                                                                                                                                 |                                                                        |
| Keys                        | Virtual Keyboard                                                                                                                                                                                                                                 | 24 programmable keys<br>Labeling options – function keys or customized |
| Environment                 |                                                                                                                                                                                                                                                  |                                                                        |
| Protection                  | NEMA4X, IP66, IP65<br>(when panel mounted)                                                                                                                                                                                                       | NEMA4X, IP65<br>(when panel mounted)                                   |
| Operating Temperature       | 0 to 50°C                                                                                                                                                                                                                                        |                                                                        |
| Standards                   | UL, CE, EAC, UL Hazardous Locations, Class I, Division 2 <sup>2</sup>                                                                                                                                                                            | UL, CE, EAC                                                            |
| General                     |                                                                                                                                                                                                                                                  |                                                                        |
| Battery                     | 7 years typical at 25°C, battery back-up for all memory sections and RTC                                                                                                                                                                         |                                                                        |
| Clock                       | Real-time clock functions (date and time)                                                                                                                                                                                                        |                                                                        |
| Power Supply                | 12/24VDC <sup>3</sup>                                                                                                                                                                                                                            |                                                                        |

<sup>1</sup> EX-RC1: via CANbus, integrate standard Unitronics' I/O modules at distances of up to 1000m.  
<sup>2</sup> For a list of relevant models, contact Unitronics.  
<sup>3</sup> 12V applies to PLC power supply only, and not to the I/O.

VISION430™

Features:

HMI

- Size: 4.3"
- High quality color touchscreen
- Multi-language display
- Built-in Alarm Screens

PLC

- I/O options include digital, analog, high speed, temperature, and weight measurement
- Expand up to 512 I/Os
- Auto-tune PID, up to 24 independent loops
- Recipe programs and data logging via data tables
- Micro SD card - log, backup, clone & more
- Function Blocks

Communication

Built-in ports:

- 1 Mini USB for programming
- 1 RS485/RS232

Add-on ports:

- 1 Serial/Ethernet/Profibus
- 1 CANbus

Protocols:

- MODBUS TCP
- SNMP V1
- CANopen, CANlayer2, UniCAN
- BACnet, KNX and M-Bus via gateway
- FB Protocol: for any 3rd party protocol

General Features:

- Web server
- E-mail & SMS
- 3G Modem support
- Remote access utilities

Advanced PLC with a built-in 4.3" wide-aspect color touch screen. Includes built-in I/O configuration, expand up to 512 I/Os.



V430



“The huge advantage of this PLC was that - with everything built-in the communications and use of tags in the HMI was so simple and intuitive.”

Ashley Parr,  
HPS

| I/O Options                 |                                                                                                                                                                                                                                                    |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Total supported I/Os        | 512                                                                                                                                                                                                                                                |
| Built-in                    | According to model (See Built-in I/Os table below)                                                                                                                                                                                                 |
| I/O Expansion               | Add Local I/O via expansion port • Add Remote I/Os via CANbus (See I/O Expansion Modules- page 36)                                                                                                                                                 |
| Local I/O Expansion         | Use Local Expansion Adapters to add up to 8 modules                                                                                                                                                                                                |
| Remote I/O Expansion        | Use EX-RC1 adapters to further extend the number of I/Os¹                                                                                                                                                                                          |
| Program                     |                                                                                                                                                                                                                                                    |
| Application Memory          | Application Logic: 1MB • Images: 12MB • Fonts: 320KB                                                                                                                                                                                               |
| Scan Time                   | 15µ sec per 1K of typical application                                                                                                                                                                                                              |
| Memory Operands             | 8192 coils, 4096 registers, 512 long integers (32-bit), 256 double words (32-bit unsigned), 64 floats, 384 timers (32-bit), 32 counters<br>Additional non-retainable operands: 1024 X-bits, 512 X-integers, 256 X-long integers, 64 X-double words |
| HMI Panel                   |                                                                                                                                                                                                                                                    |
| Color Touchscreen           | Resistive, Analog                                                                                                                                                                                                                                  |
| Cut Out Height x Width (mm) | 91.5 x 122.5                                                                                                                                                                                                                                       |
| Resolution                  | 480 x 272                                                                                                                                                                                                                                          |
| Keys                        | 5 programmable                                                                                                                                                                                                                                     |
| Environment                 |                                                                                                                                                                                                                                                    |
| Protection                  | NEMA4X, IP66, IP65 (when panel mounted)                                                                                                                                                                                                            |
| Operating Temperature       | 0 to 50°C                                                                                                                                                                                                                                          |
| Standards                   | UL, CE, EAC, UL Hazardous Locations, Class I, Division 2²                                                                                                                                                                                          |
| General                     |                                                                                                                                                                                                                                                    |
| Battery                     | 7 years typical at 25°C, battery back-up for all memory sections and RTC                                                                                                                                                                           |
| Clock                       | Real-time clock functions (date and time)                                                                                                                                                                                                          |

Vision430™ models - Built-in I/O configurations

¹ EX-RC1: via CANbus, integrate standard Unitronics' I/O modules at distances of up to 1000m.  
² For a list of relevant models, contact Unitronics.

| Article      | Summary                                                                                                | Inputs¹  |                     |                                                                    |                          | Outputs     |                             |       |                               | Operating Voltage |
|--------------|--------------------------------------------------------------------------------------------------------|----------|---------------------|--------------------------------------------------------------------|--------------------------|-------------|-----------------------------|-------|-------------------------------|-------------------|
|              |                                                                                                        | Digital² | HSC/Shaft-encoder²  | Analog                                                             | Temperature Measurement  | Transistor³ | PWM/HSO³                    | Relay | Analog                        |                   |
| V430-J-B1    | No onboard I/Os                                                                                        | —        | —                   | —                                                                  | —                        | —           | —                           | —     | —                             | 12/24VDC          |
| V430-J-RH2   | 10 Digital, 2 D/A Inputs¹<br>6 Relay Outputs                                                           | 12       | 3<br>200kHz, 32-bit | 2<br>0-10V, 0-20mA, 4-20mA<br>10-bit                               | —                        | —           | —                           | 6     | —                             | 24VDC             |
| V430-J-R34   | 20 Digital, 2 D/A Inputs¹<br>12 Relay Outputs                                                          | 22       | 3<br>30kHz, 32-bit  | 2<br>0-10V, 0-20mA, 4-20mA<br>10-bit                               | —                        | —           | —                           | 12    | —                             | 24VDC             |
| V430-J-TR34  | 20 Digital, 2 D/A Inputs¹<br>8 Relay, 4 High-speed Transistor Outputs                                  | 22       | 3<br>200kHz, 32-bit | 2<br>0-10V, 0-20mA, 4-20mA<br>10-bit                               | —                        | 4<br>npn    | 4<br>(3 PTO)<br>200 kHz max | 8     | —                             | 24VDC             |
| V430-J-RH6   | 6 Digital, 2 D/A¹<br>4 Analog Inputs<br>6 Relay Outputs                                                | 8        | 1<br>200kHz, 32-bit | 2<br>0-10V, 0-20mA, 4-20mA<br>and<br>4<br>0-20mA, 4-20mA<br>10-bit | —                        | —           | —                           | 6     | —                             | 24VDC             |
| V430-J-RA22  | 8 Digital, 2 D/A, 2 TC/PT100/<br>Digital Inputs¹<br>8 Relay, 2 Analog Outputs                          | 12       | 1<br>30kHz, 32-bit  | 2<br>0-10V, 0-20mA, 4-20mA<br>14-bit                               | 2<br>Thermocouple, PT100 | —           | —                           | 8     | 2<br>0-10V, 4 -20mA<br>12-bit | 24VDC             |
| V430-J-TRA22 | 8 Digital, 2 D/A, 2 TC/PT100/<br>Digital Inputs¹<br>4 Relay, 2 Analog, 4 High-Speed Transistor Outputs | 12       | 1<br>200kHz, 32-bit | 2<br>0-10V, 0-20mA, 4-20mA<br>14-bit                               | 2<br>Thermocouple, PT100 | 4<br>npn    | 4<br>(2 PTO)<br>200 kHz max | 4     | 2<br>0-10V, 4 -20mA<br>12-bit | 24VDC             |
| V430-J-T2    | 10 Digital, 2 D/A Inputs¹<br>12 Transistor Outputs                                                     | 12       | 3<br>30kHz, 32-bit  | 2<br>0-10V, 0-20mA, 4-20mA<br>10-bit                               | —                        | 12<br>pnp   | 7<br>0.5kHz                 | —     | —                             | 24VDC             |
| V430-J-T38   | 20 Digital, 2 D/A Inputs¹<br>16 Transistor Outputs                                                     | 22       | 2<br>30kHz, 32-bit  | 2<br>0-10V, 0-20mA, 4-20mA<br>10-bit                               | —                        | 16<br>pnp   | 7<br>0.5kHz                 | —     | —                             | 24VDC             |
| V430-J-TA24  | 8 Digital, 2 D/A, 2 TC/PT100/<br>Digital Inputs¹<br>10 Transistor, 2 Analog Outputs                    | 12       | 1<br>30kHz, 32-bit  | 2<br>0-10V, 0-20mA, 4-20mA<br>14-bit                               | 2<br>Thermocouple, PT100 | 10<br>pnp   | 5<br>0.5kHz                 | —     | 2<br>0-10V, 4 -20mA<br>12-bit | 24VDC             |

¹ In some models certain inputs are adaptable via wiring and software settings, and can function as digital, high-speed, analog, and in certain models as TC or PT100. Adapting requires input pins. This reduces the number of digital inputs. Pin requirements:

• Each high-speed requires 1 or 2 pins according to high-speed mode.  
• Each analog input requires 1 pin.  
• Each TC requires 2 pins per TC input  
• The first PT input requires 3 pins and two additional pins for each additional PT input.

Example: V430-J-RA22 offers 12 digital inputs. Implementing 2 TC inputs requires 4 pins, leaving 8 pins free. Implementing 2 PT inputs uses 5 input pins.

² The total number of digital inputs listed includes high-speed and adaptable inputs.

³ The total number of digital outputs listed includes high-speed outputs.

Features:

HMI

- Size: 3.5"
- High quality color touchscreen
- Multi-language display
- Built-in Alarm Screens

PLC

- I/O options include digital, analog, high speed, temperature, and weight measurement
- Expand up to 512 I/Os
- Auto-tune PID, up to 24 independent loops
- Recipe programs and data logging via data tables
- Micro SD card - log, backup, clone & more
- Function Blocks

Communication

Built-in ports:

- 1 Mini USB for programming
- 1 RS485/RS232

Add-on ports:

- 1 Serial/Ethernet/Profibus
- 1 CANbus

Protocols:

- MODBUS TCP
- SNMP V1
- CANopen, UniCAN, CANlayer2
- BACnet, KNX and M-Bus via gateway
- FB Protocol: for any 3rd party protocol

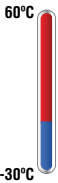
General Features:

- Web server
- E-mail & SMS
- 3G Modem support
- Remote access utilities

Palm-sized All-in-One: advanced PLC with a 3.5" color touchscreen. Includes built-in I/O configuration, expands up to 512 I/Os.



V350



**Extended temperature unit available:**  
Operational temperature range between -30°C to 60°C, available for panel Article: V350-JS-TA24.  
Extended temperature available for Ethernet (Article: V100-S-ET2) and CANbus (Article: V100-S-CAN).

| I/O Options                 |                                                                                                                                                                                                                                                    |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Total supported I/Os        | 512                                                                                                                                                                                                                                                |
| Built-in                    | According to model (See Built-in I/Os table below)                                                                                                                                                                                                 |
| I/O Expansion               | Add Local I/O via expansion port • Add Remote I/Os via CANbus. (See I/O Expansion Modules- page 36)                                                                                                                                                |
| Local I/O Expansion         | Use Local Expansion Adapters to add up to 8 modules                                                                                                                                                                                                |
| Remote I/O Expansion        | Use EX-RC1 adapters to further extend the number of I/Os¹                                                                                                                                                                                          |
| Program                     |                                                                                                                                                                                                                                                    |
| Application Memory          | Application Logic: 1MB • Images: 8MB • Fonts: 320KB                                                                                                                                                                                                |
| Scan Time                   | 15µ sec per 1K of typical application                                                                                                                                                                                                              |
| Memory Operands             | 8192 coils, 4096 registers, 512 long integers (32-bit), 256 double words (32-bit unsigned), 64 floats, 384 timers (32-bit), 32 counters<br>Additional non-retainable operands: 1024 X-bits, 512 X-integers, 256 X-long integers, 64 X-double words |
| HMI Panel                   |                                                                                                                                                                                                                                                    |
| Color Touchscreen           | Resistive, Analog                                                                                                                                                                                                                                  |
| Cut Out Height x Width (mm) | 92 x 92                                                                                                                                                                                                                                            |
| Resolution                  | 320 x 240 (QVGA)                                                                                                                                                                                                                                   |
| Keys                        | 5 programmable keys. Labeling options - function keys, arrows, or customized                                                                                                                                                                       |
| Environment                 |                                                                                                                                                                                                                                                    |
| Protection                  | NEMA4X, IP66, IP65 (when panel mounted)                                                                                                                                                                                                            |
| Operating Temperature       | 0°C to 50°C, For V350-JS-TA24: -30°C to 60°C²                                                                                                                                                                                                      |
| Standards                   | UL, CE, EAC, UL Hazardous Locations, Class I, Division 2³                                                                                                                                                                                          |
| General                     |                                                                                                                                                                                                                                                    |
| Battery                     | 7 years typical at 25°C, battery back-up for all memory sections and RTC                                                                                                                                                                           |
| Clock                       | Real-time clock functions (date and time)                                                                                                                                                                                                          |

Vision350™ models - Built-in I/O configurations

¹ EX-RC1: via CANbus, integrate standard Unitronics I/O modules at distances of up to 1000m.  
² EX-RC1: via CANbus, integrate standard Unitronics I/O modules at distances of up to 1000m.  
³ Extended temperature cards: CANBus p/n: V100-S-CAN, Ethernet p/n V100-S-ET2.  
For a list of relevant models, contact Unitronics.

| Article ⁵                     | Summary                                                                                             | Inputs ¹  |                     |                                                           |                          | Outputs      |                             |       |                            | Operating Voltage |
|-------------------------------|-----------------------------------------------------------------------------------------------------|-----------|---------------------|-----------------------------------------------------------|--------------------------|--------------|-----------------------------|-------|----------------------------|-------------------|
|                               |                                                                                                     | Digital ² | HSC/Shaft-encoder ² | Analog                                                    | Temperature Measurement  | Transistor ³ | PWM/HSO ³                   | Relay | Analog                     |                   |
| V350-J-B1                     | No onboard I/Os                                                                                     | —         | —                   | —                                                         | —                        | —            | —                           | —     | —                          | 12/24VDC          |
| V350-J-TR20                   | 10 Digital, 2 D/A Inputs¹<br>6 Relay Outputs<br>2 High-speed Transistor Outputs                     | 12        | 3<br>200kHz, 32-bit | 2<br>0-10V, 0-20mA, 4-20mA 10-bit                         | —                        | 2<br>npn     | 2<br>(2 PTO)<br>200 kHz max | 6     | —                          | 24VDC             |
| V350-J-R34                    | 20 Digital, 2 D/A Inputs¹<br>12 Relay Outputs                                                       | 22        | 3<br>30kHz, 32-bit  | 2<br>0-10V, 0-20mA, 4-20mA 10-bit                         | —                        | —            | —                           | 12    | —                          | 24VDC             |
| V350-J-TR34                   | 20 Digital, 2 D/A Inputs¹<br>8 Relay, 4 High-speed Transistor Outputs                               | 22        | 3<br>200kHz, 32-bit | 2<br>0-10V, 0-20mA, 4-20mA 10-bit                         | —                        | 4<br>npn     | 4<br>(3 PTO)<br>200 kHz max | 8     | —                          | 24VDC             |
| V350-J-TR6                    | 6 Digital, 2 D/A¹<br>4 Analog Inputs<br>6 Relay Outputs<br>2 High-speed Transistor Outputs          | 8         | 1<br>200kHz, 32-bit | 2<br>0-10V, 0-20mA, 4-20mA and 4<br>0-20mA, 4-20mA 10-bit | —                        | 2<br>npn     | 2<br>(2 PTO)<br>200 kHz max | 6     | —                          | 24VDC             |
| V350-J-RA22                   | 8 Digital, 2 D/A, 2 TC/PT100/ Digital Inputs¹<br>8 Relay, 2 Analog Outputs                          | 12        | 1<br>30kHz, 32-bit  | 2<br>0-10V, 0-20mA, 4-20mA 14-bit                         | 2<br>Thermocouple, PT100 | —            | —                           | 8     | 2<br>0-10V, 4 -20mA 12-bit | 24VDC             |
| V350-J-TRA22                  | 8 Digital, 2 D/A, 2 TC/PT100/ Digital Inputs¹<br>4 Relay, 2 Analog, 4 High-Speed Transistor Outputs | 12        | 1<br>200kHz, 32-bit | 2<br>0-10V, 0-20mA, 4-20mA 14-bit                         | 2<br>Thermocouple, PT100 | 4<br>npn     | 4<br>(2 PTO)<br>200 kHz max | 4     | 2<br>0-10V, 4 -20mA 12-bit | 24VDC             |
| V350-J-T2                     | 10 Digital, 2 D/A Inputs ¹<br>12 Transistor Outputs                                                 | 12        | 3<br>30kHz, 32-bit  | 2<br>0-10V, 0-20mA, 4-20mA 10-bit                         | —                        | 12<br>pnp    | 7<br>0.5kHz                 | —     | —                          | 24VDC             |
| V350-J-T38                    | 20 Digital, 2 D/A Inputs ¹<br>16 Transistor Outputs                                                 | 22        | 2<br>30kHz, 32-bit  | 2<br>0-10V, 0-20mA, 4-20mA 10-bit                         | —                        | 16<br>pnp    | 7<br>0.5kHz                 | —     | —                          | 24VDC             |
| V350-J-TA24<br>V350-JS-TA24 ⁴ | 8 Digital, 2 D/A, 2 TC/PT100/ Digital Inputs¹<br>10 Transistor, 2 Analog Outputs                    | 12        | 1<br>30kHz, 32-bit  | 2<br>0-10V, 0-20mA, 4-20mA 14-bit                         | 2<br>Thermocouple, PT100 | 10<br>pnp    | 5<br>0.5kHz                 | —     | 2<br>0-10V, 4 -20mA 12-bit | 24VDC             |

¹ In some models certain inputs are adaptable via wiring and software settings, and can function as digital, high-speed, analog, and in certain models as TC or PT100. Adapting requires input pins. This reduces the number of digital inputs. Pin requirements:

- Each high-speed requires 1 or 2 pins according to high-speed mode.
- Each analog input requires 1 pin.
- Each TC requires 2 pins per TC input.
- The first PT input requires 3 pins, and two additional pins for each additional PT input.

Example: V350-35-RA22 offers 12 digital inputs. Implementing 2 TC inputs requires 4 pins, leaving 8 pins free.  
Implementing 2 PT inputs uses 5 input pins.  
² The total number of digital inputs listed includes high-speed and adaptable inputs.

³ The total number of digital outputs listed includes high-speed outputs.  
⁴ Extended temperature unit.  
⁵ To order a classic V350 with a Bezel panel, switch the 'J' in the model number to '33', ex: V350, V350-33- TR20

VISION130™

Features:

HMI

- Size: 2.4"
- Monochrome
- Multi-language display
- Built-in Alarm Screens

PLC

- I/O options include digital, analog , high speed, temperature, and weight measurement
- Expand up to 256 I/Os
- Auto-tune PID, up to 24 independent loops
- Recipe programs and data logging via data tables
- Micro SD card - log, backup, clone & more
- Function Blocks

Communication

Built-in ports:

- 1 RS485/RS232

Add-on ports:

- 1 Serial/Ethernet/Profibus
- 1 CANbus

Protocols:

- MODBUS TCP
- SNMP V1
- CANopen, UniCAN, CANlayer2
- BACnet, KNX and M-Bus via gateway
- FB Protocol: for any 3rd party protocol

General Features:

- Web server
- E-mail & SMS
- 3G Modem support
- Remote access utilities

Palm-size, powerful PLC with built-in black & white LCD 2.4", keypad and I/Os, expands up to 256 I/Os.



V130



“The perfect solution for our need, the Vision130™ is easy to program, user-friendly and backed up with responsive tech support.”

Michael Lamore,  
President of Barrier1

| I/O Options                 |                                                                                                                                                                                                                                                   |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Total supported I/Os        | 256                                                                                                                                                                                                                                               |
| Built-in                    | According to model (See Built-in I/Os table below)                                                                                                                                                                                                |
| I/O Expansion               | Add Local I/O via expansion port • Add Remote I/Os via CANbus. (See I/O Expansion Modules- page 36)                                                                                                                                               |
| Local I/O Expansion         | Use Local Expansion Adapters to add up to 8 modules                                                                                                                                                                                               |
| Remote I/O Expansion        | Use EX-RC1 adapters to further extend the number of I/Os¹                                                                                                                                                                                         |
| Program                     |                                                                                                                                                                                                                                                   |
| Application Memory          | Application Logic: 488KB • Images: 128KB • Fonts: 128KB                                                                                                                                                                                           |
| Scan Time                   | 20µ sec per 1K of typical application                                                                                                                                                                                                             |
| Memory Operands             | 4096 coils, 2048 registers, 256 long integers (32-bit), 64 double words (32-bit unsigned), 24 floats, 192 timers (32-bit), 24 counters<br>Additional non-retainable operands: 1024 X-bits, 512 X-integers, 256 X-long integers, 64 X-double words |
| HMI Panel                   |                                                                                                                                                                                                                                                   |
| Touch screen                | -                                                                                                                                                                                                                                                 |
| Cut Out Height x Width (mm) | 92 x 92                                                                                                                                                                                                                                           |
| Resolution                  | 128 x 64                                                                                                                                                                                                                                          |
| Keys                        | 20, including 10 user labeled keys (slide kit sold separately)                                                                                                                                                                                    |
| Environment                 |                                                                                                                                                                                                                                                   |
| Protection                  | NEMA4X, IP66, IP65 (when panel mounted)                                                                                                                                                                                                           |
| Operating Temperature       | 0 to 50°C                                                                                                                                                                                                                                         |
| Standards                   | UL, CE, EAC, UL Hazardous Locations, Class I, Division 2²                                                                                                                                                                                         |
| General                     |                                                                                                                                                                                                                                                   |
| Battery                     | 7 years typical at 25°C, battery back-up for all memory sections and RTC                                                                                                                                                                          |
| Clock                       | Real-time clock functions (date and time)                                                                                                                                                                                                         |

Vision130™ models - Built-in I/O configurations

¹ EX-RC1: via CANbus, integrate standard Unitronics' I/O modules at distances of up to 1000m.  
² For a list of relevant models, contact Unitronics.

| Article ⁴    | Summary                                                                                                    | Inputs ¹ |                     |                                                                    |                          | Outputs     |                             |       |                               | Operating Voltage |
|--------------|------------------------------------------------------------------------------------------------------------|----------|---------------------|--------------------------------------------------------------------|--------------------------|-------------|-----------------------------|-------|-------------------------------|-------------------|
|              |                                                                                                            | Digital² | HSC/Shaft-encoder²  | Analog                                                             | Temperature Measurement  | Transistor³ | PWM/HSO³                    | Relay | Analog                        |                   |
| V130-J-B1    | No onboard I/Os                                                                                            | —        | —                   | —                                                                  | —                        | —           | —                           | —     | —                             | 12/24VDC          |
| V130-J-TR20  | 10 Digital, 2 D/A Inputs¹<br>6 Relay Outputs<br>2 High-speed Transistor Outputs                            | 12       | 3<br>200kHz, 32-bit | 2<br>0-10V, 0-20mA, 4-20mA<br>10-bit                               | —                        | 2<br>npn    | 2<br>(2 PTO)<br>200 kHz max | 6     | —                             | 24VDC             |
| V130-J-R34   | 20 Digital, 2 D/A Inputs¹<br>12 Relay Outputs                                                              | 22       | 3<br>30kHz, 32-bit  | 2<br>0-10V, 0-20mA, 4-20mA<br>10-bit                               | —                        | —           | —                           | 12    | —                             | 24VDC             |
| V130-J-TR34  | 20 Digital, 2 D/A Inputs¹<br>8 Relay, 4 High-speed Transistor Outputs                                      | 22       | 3<br>200kHz, 32-bit | 2<br>0-10V, 0-20mA, 4-20mA<br>10-bit                               | —                        | 4<br>npn    | 4<br>(3 PTO)<br>200 kHz max | 8     | —                             | 24VDC             |
| V130-J-TR6   | 6 Digital, 2 D/A¹<br>4 Analog Inputs<br>6 Relay Outputs<br>2 High-speed Transistor Outputs                 | 8        | 1<br>200kHz, 32-bit | 2<br>0-10V, 0-20mA, 4-20mA<br>and<br>4<br>0-20mA, 4-20mA<br>10-bit | —                        | 2<br>npn    | 2<br>(2 PTO)<br>200 kHz max | 6     | —                             | 24VDC             |
| V130-J-RA22  | 8 Digital, 2 D/A, 2 TC/PT100/<br>Digital Inputs¹<br>8 Relay, 2 Analog Outputs                              | 12       | 1<br>30kHz, 32-bit  | 2<br>0-10V, 0-20mA, 4-20mA<br>14-bit                               | 2<br>Thermocouple, PT100 | —           | —                           | 8     | 2<br>0-10V, 4 -20mA<br>12-bit | 24VDC             |
| V130-J-TRA22 | 8 Digital, 2 D/A, 2 PT100/ TC/<br>Digital Inputs¹<br>4 Relay, 2 Analog, 4 High-Speed<br>Transistor Outputs | 12       | 1<br>200kHz, 32-bit | 2<br>0-10V, 0-20mA, 4-20mA<br>14-bit                               | 2<br>Thermocouple, PT100 | 4<br>npn    | 4<br>(2 PTO)<br>200 kHz max | 4     | 2<br>0-10V, 4 -20mA<br>12-bit | 24VDC             |
| V130-J-T2    | 10 Digital, 2 D/A Inputs¹<br>12 Transistor Outputs                                                         | 12       | 3<br>30kHz, 32-bit  | 2<br>0-10V, 0-20mA, 4-20mA<br>10-bit                               | —                        | 12<br>pnp   | 7<br>0.5kHz                 | —     | —                             | 24VDC             |
| V130-J-T38   | 20 Digital, 2 D/A Inputs ¹<br>16 Transistor Outputs                                                        | 22       | 2<br>30kHz, 32-bit  | 2<br>0-10V, 0-20mA, 4-20mA<br>10-bit                               | —                        | 16<br>pnp   | 7<br>0.5kHz                 | —     | —                             | 24VDC             |
| V130-J-TA24  | 8 Digital, 2 D/A, 2 TC/PT100/<br>Digital Inputs ¹<br>10 Transistor, 2 Analog Outputs                       | 12       | 1<br>30kHz, 32-bit  | 2<br>0-10V, 0-20mA, 4-20mA<br>14-bit                               | 2<br>Thermocouple, PT100 | 10<br>pnp   | 5<br>0.5kHz                 | —     | 2<br>0-10V, 4 -20mA<br>12-bit | 24VDC             |

¹ In some models certain inputs are adaptable via wiring and software settings, and can function as digital, high-speed, analog, and in certain models as TC or PT100. Adapting requires input pins. This reduces the number of digital inputs.  
Pin requirements:  
• Each high-speed requires 1 or 2 pins according to high-speed mode.  
• Each analog input requires 1 pin.  
• Each TC requires 2 pins per TC input.  
• The first PT input requires 3 pins, and two additional pins for each additional PT input.

Example: V130-33-RA22 offers 12 digital inputs. Implementing 2 TC inputs requires 4 pins, leaving 8 pins free. Implementing 2 PT inputs uses 5 input pins.

² The total number of digital inputs listed includes high-speed and adaptable inputs.

³ The total number of digital outputs listed includes high-speed outputs.

⁴ To order a classic V130 with a Bezel panel, switch the 'J' in the model number to '35' ex. V130, V130-33-TR20.

Features:

HMI

- Size: 3.5", 4.3", 7"
- High quality color touchscreen
- Multi-language display
- Built-in Alarm Screens

PLC

- I/O options include digital, analog, and high speed
- Auto-tune PID, up to 2 independent loops
- Recipe programs and data logging via data tables
- Function Blocks

Communication

Built-in ports:

- 1 Mini USB for programming for 4.3" & 7"models,
- 1 RS232 for 3.5" model

Add-on ports:

- 1 Serial/Ethernet
- 1 CANbus

Protocols:

- MODBUS TCP
- SNMP V1
- CANopen, UniCAN, CANlayer2
- BACnet, KNX and M-Bus via gateway
- FB Protocol: for any 3rd party protocol

General Features:

- E-mail & SMS
- 3G Modem support
- Remote access utilities

Full-function PLC with built-in, high-resolution full-color touch screen and built-in I/O configuration. Great look, incredible price.



SAMBA 3.5"



SAMBA 4.3"



SAMBA 7"

|                             | SAMBA                                                                                                                                                                                                                                                      |                                                         |                                                         |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Article Number              | SAMBA 3.5                                                                                                                                                                                                                                                  | SAMBA 4.3                                               | SAMBA 7                                                 |
| I/O Options                 |                                                                                                                                                                                                                                                            |                                                         |                                                         |
| Total supported I/Os        | 22                                                                                                                                                                                                                                                         |                                                         |                                                         |
| Built-in                    | According to model (See Built-in I/Os table below)                                                                                                                                                                                                         |                                                         |                                                         |
| I/O Expansion               | -                                                                                                                                                                                                                                                          |                                                         |                                                         |
| Remote I/O Expansion        | Use EX-RC1 adapters to further extend the number of I/Os <sup>1</sup>                                                                                                                                                                                      |                                                         |                                                         |
| COM Modules                 | Fit up to 1 CANbus, 1 RS232/RS485 <sup>3</sup> or 1 Ethernet                                                                                                                                                                                               |                                                         |                                                         |
| Program                     |                                                                                                                                                                                                                                                            |                                                         |                                                         |
| Application Memory          | Application Logic: 80KB • Images: 1.5 MB • Fonts: 320 KB                                                                                                                                                                                                   | Application Logic: 192KB • Images: 3 MB • Fonts: 320 KB | Application Logic: 192KB • Images: 8 MB • Fonts: 512 KB |
| Scan Time                   | 15µS per 1K of typical application                                                                                                                                                                                                                         |                                                         |                                                         |
| Memory Operands             | 512 coils, 256 registers, 32 long integers (32-bit), 32 double words (32-bit unsigned), 24 floats, 32 timers (32-bit), 16 counters. Additional non-retainable operands: 64 X-bits, 32 X-integers, 16 X-long integers, 16 X-double words (32-bits unsigned) |                                                         |                                                         |
| HMI Panel                   |                                                                                                                                                                                                                                                            |                                                         |                                                         |
| Color Touchscreen           | Resistive, Analog                                                                                                                                                                                                                                          |                                                         |                                                         |
| Cut Out Height x Width (mm) | 92 X 92                                                                                                                                                                                                                                                    | 122.5 X 91.5                                            | 193 X 125                                               |
| Resolution                  | 320 X 240 (QVGA)                                                                                                                                                                                                                                           | 480 X 272                                               | 800 x 480 (WVGA)                                        |
| Keys                        | Displays virtual keyboard when the application requires data entry                                                                                                                                                                                         |                                                         |                                                         |
| Environment                 |                                                                                                                                                                                                                                                            |                                                         |                                                         |
| Protection                  | NEMA4X/IP66/IP65 (when panel mounted)                                                                                                                                                                                                                      |                                                         |                                                         |
| Operating Temperature       | 0 to 50°C                                                                                                                                                                                                                                                  |                                                         |                                                         |
| Standards                   | UL, CE, EAC, UL Hazardous Locations, Class I, Division 2 <sup>2</sup>                                                                                                                                                                                      |                                                         |                                                         |
| General                     |                                                                                                                                                                                                                                                            |                                                         |                                                         |
| Battery                     | 7 years typical at 25°C, battery back-up for RTC and system data, including variable data                                                                                                                                                                  |                                                         |                                                         |
| Clock                       | Real-time clock functions (date and time)                                                                                                                                                                                                                  |                                                         |                                                         |

Samba™ models - Built-in I/O configurations

| Article                                   | Summary                                                                      | Inputs <sup>1</sup>  |                                |                                         |                         | Outputs                 |                      |       |                                       | Operating Voltage |
|-------------------------------------------|------------------------------------------------------------------------------|----------------------|--------------------------------|-----------------------------------------|-------------------------|-------------------------|----------------------|-------|---------------------------------------|-------------------|
|                                           |                                                                              | Digital <sup>2</sup> | HSC/Shaft-encoder <sup>2</sup> | Analog                                  | Temperature Measurement | Transistor <sup>3</sup> | PWM/HSo <sup>3</sup> | Relay | Analog                                |                   |
| SM35-J-R20<br>SM43-J-R20<br>SM70-J-R20    | 10 Digital, 2 D/A Inputs <sup>4</sup> ,<br>8 Relay Outputs                   | 12                   | 1<br>30kHz, 32-bit             | 2<br>0-10V, 0-20mA, 4-20mA<br>10-bit    | —                       | —                       | —                    | 8     | —                                     | 24VDC             |
| SM35-J-T20<br>SM43-J-T20<br>SM70-J-T20    | 10 Digital, 2 D/A Inputs,<br>8 Transistor Outputs                            | 12                   | 3<br>30kHz, 32-bit             | 2<br>0-10V, 0-20mA, 4-20mA<br>10-bit    | —                       | 8<br>pnp                | 7<br>0.5kHz          | —     | —                                     | 24VDC             |
| SM35-J-RA22<br>SM43-J-RA22<br>SM70-J-RA22 | 12 Digital, 1 HSC/Shaft-<br>encoder, 2 AI, 2 PT100/TC,<br>8 Relay, 2 AO      | 12                   | 1<br>30kHz, 32-bit             | 2<br>0-10V, 0-20mA, 4-20mA<br>12/14-bit | 2<br>PT100/TC           | —                       | —                    | 8     | 2<br>0-10V, 4-20mA,<br>12-bit         | 24VDC             |
| SM35-J-TA22<br>SM43-J-TA22<br>SM70-J-TA22 | 12 Digital, 1 HSC/Shaft-<br>encoder, 2 AI, 2 PT100/TC,<br>8 Transistor, 2 AO | 12                   | 1<br>30kHz, 32-bit             | 2<br>0-10V, 0-20mA, 4-20mA<br>12/14-bit | 2<br>PT100/TC           | 8<br>pnp                | 5<br>0.5kHz          | —     | 0-10V, 4-20mA,<br>12-bit <sup>2</sup> | 24VDC             |

<sup>1</sup> In some models certain inputs are adaptable via wiring and software settings, and can function as digital or analog.  
<sup>2</sup> Adapting requires input pins. This reduces the number of digital inputs.  
Pin requirements: Each analog input requires 1 pin.  
Example: SM35-J-R20 offers 12 digital inputs. Implementing 2 analog inputs requires 2 pins, leaving 10 pins free.

<sup>3</sup> The total number of digital inputs listed includes high-speed and adaptable inputs.  
<sup>4</sup> The total number of digital outputs listed includes high-speed outputs.  
<sup>5</sup> When selecting NPN for the digital inputs, the 2 Analog inputs cannot be used.

Features:

HMI

- Up to 60 user-designed screens
- Multi language

PLC

- I/O options include digital, analog, temperature and high speed
- Auto-tune PID, up to 4 independent loops (according to model\*)

Communication

Built-in ports:

- 1 Mini USB for programming

Add-on ports:

- 1 Ethernet TCP/IP
- 1 RS232 / RS485

Protocols:

- PC access via MODBUS or OPC server
- Supports MODBUS protocol (according to model)

General Features:

- SMS via GSM
- 3G Modem support
- Remote access utilities

Accessories:

- Program Cloner module- Copy applications from PLC to PLC
- Keypad Slide kit- Customize the Jazz keypad to your application

\*Up to 4 loops: models UA24 / UN20  
1 loop: all other models 1

DIN-rail Power Supplies

| UAP-24V24W | UAP-24V60W   | UAP-24V96W |
|------------|--------------|------------|
| 24W 24V 1A | 60W 24V 2.5A | 96W 24V 4A |

GSM

| GSM-KIT-17J-3G                    |
|-----------------------------------|
| KIT, MODEM GPRS, CINTERION, EHS6T |

Jazz Add-on ports and Accessories

| COM Port kit                                  | Ethernet Communication Port | Program Cloner module  | Keypad Slide kit          |
|-----------------------------------------------|-----------------------------|------------------------|---------------------------|
| RS232/RS485 (isolated)<br>Article No.: JZ-RS4 | Article No.: MJ20-ET1¹      | Article No.: MJ20-MEM1 | Article No.: MJ20-JZ-SL1¹ |

An All-in-One unit as affordable as a "smart relay". Full-function PLC combined with a textual HMI and keypad, with up to 40 built-in I/Os.



Jazz®



| I/O Options                 |                                                                                            |
|-----------------------------|--------------------------------------------------------------------------------------------|
| Total supported I/Os        | 40                                                                                         |
| Built-in                    | According to model (See Built-in I/Os table below)                                         |
| I/O Expansion               | -                                                                                          |
| Program                     |                                                                                            |
| Memory Operands             | 256 coils, 256 registers, 64 timers                                                        |
| Ladder Memory               | 48K                                                                                        |
| HMI Panel                   |                                                                                            |
| Touch screen                | -                                                                                          |
| Cut Out Height x Width (mm) | 117 x 89                                                                                   |
| Resolution                  | 2 lines, 16 characters                                                                     |
| Keys                        | 16 keys, including 10 user-labeled keys                                                    |
| Environment                 |                                                                                            |
| Protection                  | NEMA4X/IP65 (when panel mounted)                                                           |
| Operating Temperature       | 0 to 50°C                                                                                  |
| Standards                   | UL, CE, EAC                                                                                |
| General                     |                                                                                            |
| Battery                     | 10 years typical at 25°C, battery back-up for RTC and system data, including variable data |
| Clock                       | Real-time clock functions (date and time)                                                  |

Jazz® models - Built-in I/O configurations

| Article ⁴    | Summary                                                                                                   | Inputs¹   |                     |                                                             |                             | Outputs              |            |       |                             | Operating Voltage |
|--------------|-----------------------------------------------------------------------------------------------------------|-----------|---------------------|-------------------------------------------------------------|-----------------------------|----------------------|------------|-------|-----------------------------|-------------------|
|              |                                                                                                           | Digital ² | HSC/Shaft-encoder ² | Analog                                                      | Temperature Measurement     | Transistor ³         | PWM/HSO ³  | Relay | Analog                      |                   |
| JZ20-J-R10   | 6 Digital Inputs<br>4 Relay Outputs                                                                       | 6         | 2<br>10kHz, 16-bit  | —                                                           | —                           | —                    | —          | 4     | —                           | 24VDC             |
| JZ20-J-R16   | 6 Digital,<br>2 D/A, 2 Analog Inputs ¹<br>6 Relay Outputs                                                 | 8         |                     | 2 0-10V<br>10 or 12-bit<br>2 0-20mA, 4-20mA<br>10 or 12-bit | —                           | —                    | —          | 6     | —                           | 24VDC             |
| JZ20-J-R16HS | 6 Digital,<br>3 HSC/Shaft-encoder,<br>2 A/D, 2 AI, 6 Relay outputs                                        | 8         | 3<br>10kHz, 16-bit  | 2 0-10V<br>10 or 12-bit<br>2 0-20mA, 4-20mA<br>10-bit       | —                           | —                    | —          | 6     | —                           | 24VDC             |
| JZ20-J-R31   | 16 Digital, 2 D/A, 2 Analog Inputs ¹<br>11 Relay Outputs                                                  | 18        | 2<br>10kHz, 16-bit  | 2 0-10V<br>10 or 12-bit<br>2 0-20mA, 4-20mA<br>10-bit       | —                           | —                    | —          | 11    | —                           | 24VDC             |
| JZ20-J-T10   | 6 Digital Inputs<br>4 Transistor Outputs                                                                  | 6         |                     | —                                                           | —                           | 4<br>pnp             | —          | —     | —                           | 24VDC             |
| JZ20-J-T18   | 6 Digital, 2 D/A, 2 Analog Inputs ¹<br>8 Transistor Outputs                                               | 8         | 2<br>10kHz, 16-bit  | 2 0-10V<br>10-bit<br>2 0-20mA, 4-20mA<br>10-bit             | —                           | 8<br>pnp             | —          | —     | —                           | 24VDC             |
| JZ20-J-T20HS | 6 Digital, 3 HSC/Shaft-encoder,<br>2 A/D, 2 AI, 10 Transistor outputs                                     | 8         |                     | 2 0-10V<br>10-bit                                           | —                           | 8<br>pnp<br>2<br>nnp | 2<br>32kHz | —     | —                           | 24VDC             |
| JZ20-J-T40   | 16 Digital, 2 D/A, 2 Analog Inputs ¹<br>20 Transistor Outputs                                             | 18        |                     | 2 0-10V<br>10-bit<br>2 0-20mA, 4-20mA<br>10-bit             | —                           | 20<br>pnp            | —          | —     | —                           | 24VDC             |
| JZ20-J-UA24  | 9 Digital Inputs,<br>1 HSC, 2 A/D, 2 AI,<br>2 TC/PT100,<br>5 Relay Outputs,<br>2 Transistor Outputs, 2 AO | 11        |                     | 2 0-20mA<br>4-20mA<br>2 0-10 VDC                            | 2<br>Thermocouple,<br>PT100 | 2<br>pnp             | 2          | 5     | 2 +/-10V, 4<br>-20mA 12-bit | 24VDC             |
| JZ20-J-UN20  | 9 Digital, 2 D/A, ¹ Analog<br>1 TC/PT100 Inputs ¹<br>5 Relay 2 Transistor Outputs                         | 11        | 1<br>5kHz, 16-bit   | 2 0-10V<br>10-bit<br>1 0-20mA, 4-20mA<br>10-bit             | 1<br>Thermocouple,<br>PT100 | 2<br>pnp             | 2          | 5     | —                           | 24VDC             |

¹ In some models certain inputs are adaptable, and can function as either digital or analog. Adapting requires input pins. This reduces the number of digital inputs. Pin requirements: Each analog input requires 1 pin.

² Note that the high-speed inputs are included in the total number of digital inputs

³ Note that the high-speed outputs are included in the total number of npn/pnp digital outputs

⁴ To order a classic Jazz with a Bezel panel, omit the 'J' from the model number, ex. JZ20-R10

¹ Not yet UL certified

I/O Expansion Modules & Accessories- Vision Series

Expand your system with local or remote I/O expansion modules.

|                                                    |                            | Inputs               |                                |                                              |                         |                           | Outputs                 |                        |       |                                           | Operating Voltage  |
|----------------------------------------------------|----------------------------|----------------------|--------------------------------|----------------------------------------------|-------------------------|---------------------------|-------------------------|------------------------|-------|-------------------------------------------|--------------------|
|                                                    | Expansion Modules Article  | Digital <sup>1</sup> | HSC <sup>2</sup>               | Analog                                       | Temperature Measurement | Weight Measurement        | Transistor <sup>6</sup> | PWM/HSO <sup>6</sup>   | Relay | Analog                                    |                    |
| Digital                                            | IO-DI8-T08                 | 8 pnp/npn            | 1 5kHz 16-bit                  | —                                            | —                       | —                         | 8 pnp                   | —                      | —     | —                                         | 24VDC <sup>9</sup> |
|                                                    | IO-DI8-R04                 | 8 pnp/npn            | 1 5kHz 16-bit                  | —                                            | —                       | —                         | —                       | —                      | 4     | —                                         | 24VDC <sup>9</sup> |
|                                                    | IO-DI8-R08                 | 8 pnp/npn            | 1 5kHz 16-bit                  | —                                            | —                       | —                         | —                       | —                      | 8     | —                                         | 24VDC <sup>9</sup> |
|                                                    | EX90-DI8-R08 <sup>3</sup>  | 8 pnp                | 1 5kHz 16-bit                  | —                                            | —                       | —                         | —                       | —                      | 8     | —                                         | 24VDC              |
|                                                    | IO-DI16                    | 16 pnp/npn           | 1 5kHz 16-bit                  | —                                            | —                       | —                         | —                       | —                      | —     | —                                         | 24VDC <sup>9</sup> |
|                                                    | IO-T016                    | —                    | —                              | —                                            | —                       | —                         | 16 pnp                  | —                      | —     | —                                         | 24VDC              |
|                                                    | IO-R08                     | —                    | —                              | —                                            | —                       | —                         | —                       | —                      | 8     | —                                         | 24VDC <sup>9</sup> |
|                                                    | IO-R016                    | —                    | —                              | —                                            | —                       | —                         | —                       | —                      | 16    | —                                         | 24VDC <sup>9</sup> |
|                                                    | IO-DI8ACH                  | 8 AC                 | —                              | —                                            | —                       | —                         | —                       | —                      | —     | —                                         | 110/220 VAC        |
| Analog, Temperature and Weight/Strain Measurements | IO-AI4-A02                 | —                    | —                              | 4 0-10V, 0-20mA, 4-20mA 12-bit               | —                       | —                         | —                       | —                      | —     | 2 ±10V 12-bit+sign, 0-20mA, 4-20mA 12-bit | 24VDC              |
|                                                    | IO-PT400                   | —                    | —                              | —                                            | 4 PT100/NI100/NI120     | —                         | —                       | —                      | —     | —                                         | Not relevant       |
|                                                    | IO-PT4K                    | —                    | —                              | —                                            | 4 PT1000/NI1000         | —                         | —                       | —                      | —     | —                                         | Not relevant       |
|                                                    | IO-A06X                    | —                    | —                              | —                                            | —                       | —                         | —                       | —                      | —     | 6 (Isolated) 0-10V, 0-20mA, 4-20mA 12-bit | 24VDC              |
|                                                    | IO-LC1                     | 1 pnp                | —                              | —                                            | —                       | 1 Loadcell / Strain gauge | 2 pnp                   | —                      | —     | —                                         | 24VDC              |
|                                                    | IO-LC3                     | 1 pnp                | —                              | —                                            | —                       | 3 Loadcell / Strain gauge | 2 pnp                   | —                      | —     | —                                         | 24VDC              |
|                                                    | IO-ATC8                    | —                    | —                              | 8 Thermocouple, 0-10V, 0-20mA, 4-20mA 14-bit | —                       | —                         | —                       | —                      | —     | —                                         | Not relevant       |
|                                                    | IO-AI8                     | —                    | —                              | 8 0-10V, 0-20mA, 4-20mA 14-bit               | —                       | —                         | —                       | —                      | —     | —                                         | Not relevant       |
| XL Digital/ Analog                                 | IO-D16A3-R016              | 16 pnp/npn           | 2 30kHz 16/32-bit <sup>9</sup> | 3 0-20mA, 4-20mA 10-bit                      | —                       | —                         | —                       | —                      | 16    | —                                         | 24VDC              |
|                                                    | IO-D16A3-T016              | 16 pnp/npn           | 1 30kHz 16/32-bit <sup>9</sup> | 3 0-20mA, 4-20mA 10-bit                      | —                       | —                         | 15 pnp, 1 npn/npn       | 1 pnp 0.5kHz npn 50kHz | None  | —                                         | 24VDC              |
|                                                    | EX-D16A3-R08 <sup>7</sup>  | 16 pnp/npn           | 2 30kHz 16/32-bit <sup>9</sup> | 3 0-20mA, 4-20mA 10-bit                      | —                       | —                         | None                    | None                   | 8     | —                                         | 24VDC              |
|                                                    | EX-D16A3-T016 <sup>7</sup> | 16 pnp/npn           | 1 30kHz 16/32-bit <sup>9</sup> | 3 0-20mA, 4-20mA 10-bit                      | —                       | —                         | 15 pnp 1 npn/npn        | 1 pnp 0.5kHz npn 50kHz | None  | —                                         | 24VDC              |
| High-speed Remote I/O Module                       | EXF-RC15 <sup>2,4,10</sup> | 9 pnp/npn            | 3 200kHz 32-bit                | —                                            | —                       | —                         | 4 npn                   | 4 (up to 3 PTO)        | 2     | —                                         | 24VDC              |

I/O Expansion Module Adapters

|                               | Article               | Description                                                                                                                                                                    |
|-------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I/O Expansion Module Adapters | EX-A2X <sup>1</sup>   | Local I/O module adapter, Galvanic isolation. Up to <b>8</b> modules may be connected to a single PLC <sup>1</sup> Supports both 12/24 VDC                                     |
|                               | EX-RC1 <sup>1,4</sup> | Remote I/O module adapter, via CANbus. Multiple adapters may be connected to a single PLC, with up to <b>8</b> modules to each adapter <sup>1</sup> . Supports both 12/24 VDC. |

<sup>1</sup> Number of supported I/Os & I/O modules varies according to module.  
<sup>2</sup> The EXF-RC15 functions as a node in a Vision UniCAN network and connects to the Vision controller via CANbus and programmed in VisiLogic. The EXF-RC15 cannot be extended as regular I/O unit. High-speed inputs are configurable as either high-speed counter (HSC) or shaft-encoder.  
<sup>3</sup> The EX90 is housed in an open casing. Only one EX90 can be connected per PLC, as a single expansion module; Expansion adapter not required.  
<sup>4</sup> Supported by Samba, Vision and UniStream series.  
<sup>5</sup> The total number of digital inputs listed includes high-speed inputs. Example: the IO-D16A3-T016 offers a total of 16 pnp/npn inputs. You can configure 14 as a HSC and 15 as a Counter reset; this reduces the available number of digital inputs to 14.  
<sup>6</sup> The total number of digital outputs listed includes high-speed outputs. Example: the IO-D16A3-T016 offers a total of 16 transistor outputs. You can configure 1 to High-speed output, reducing the number of available digital outputs to 15.  
<sup>7</sup> Functions as local adapter. Can support up to 7 I/O modules.  
<sup>8</sup> 16-bit or 32-bit, depending on the PLC.  
<sup>9</sup> Also available as 12VDC – contact us for part number.  
<sup>10</sup> One HSC may be configured as a shaft encoder.

Snap-in I/O Modules

Compatible with Vision models:  
V560, V570, V700, V1040 and V1210.

|                           | Inputs                          |                                |                                                                                                                 |                         | Outputs                                 |                                      |           |                                                 | Operating Voltage |
|---------------------------|---------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------------|--------------------------------------|-----------|-------------------------------------------------|-------------------|
| Snap-in I/O Article       | Digital (isolated) <sup>1</sup> | HSC/Shaft-encoder <sup>1</sup> | Analog                                                                                                          | Temperature Measurement | Transistor (isolated) <sup>2</sup>      | PWM/HSO <sup>2</sup>                 | Relay     | Analog                                          |                   |
| V200-18-E1B               | <b>16</b><br>pnp/npn            | <b>2</b><br>10kHz 32-bit       | <b>3</b><br>0-10 V, 0-20mA, 4-20mA<br>10-bit                                                                    | —                       | <b>4</b><br>pnp/npn                     | <b>2</b><br>pnp 0.5kHz<br>npn 50kHz  | <b>10</b> | —                                               | 24VDC             |
| V200-18-E2B               | <b>16</b><br>pnp/npn            | <b>2</b><br>10kHz 32-bit       | <b>2</b><br>0-10 V, 0-20mA, 4-20mA<br>10-bit                                                                    | —                       | <b>4</b><br>pnp/npn                     | <b>2</b><br>pnp 0.5kHz<br>npn 50kHz  | <b>10</b> | <b>2</b><br>0-10 V,0-20mA,4-20mA<br>12-bit      | 24VDC             |
| V200-18-E3XB              | <b>18</b><br>pnp/npn            | <b>2</b><br>10kHz 32-bit       | <b>4</b> (Isolated)<br>Thermocouple, PT100, 0-10V, 0-20mA, 4-20mA<br>14-bit                                     |                         | <b>2</b><br>pnp/npn                     | <b>2</b><br>pnp 0.5kHz<br>npn 50kHz  | <b>15</b> | <b>4</b> (Isolated)<br>0-10 V, 4-20mA<br>12-bit | 24VDC             |
| V200-18-E4XB              | <b>18</b><br>pnp/npn            | <b>2</b><br>10kHz 32-bit       | <b>4</b> (Isolated)<br>Thermocouple, PT100, 0-10V, 0-20mA, 4-20mA<br>14-bit                                     |                         | <b>15</b><br>pnp<br><b>2</b><br>npn/pnp | <b>2</b><br>pnp 0.5kHz<br>npn 50kHz  | —         | <b>4</b> (Isolated)<br>0-10 V, 4-20mA<br>12-bit | 24VDC             |
| V200-18-E5B               | <b>18</b><br>pnp/npn            | <b>2</b><br>10kHz 32-bit       | <b>3</b><br>0-10 V,0-20mA, 4-20mA<br>10-bit                                                                     | —                       | <b>15</b><br>pnp<br><b>2</b><br>npn/pnp | <b>2</b><br>pnp 0.5kHz<br>npn 50kHz  | —         | —                                               | 24VDC             |
| V200-18-E6B               | <b>18</b><br>pnp/npn            | <b>2</b><br>10kHz 32-bit       | <b>2</b><br>Thermocouple, PT100, 0-10V, 0-20mA, 4-20mA<br>14-bit<br><b>3</b><br>0-10V, 0-20mA, 4-20mA<br>10-bit |                         | <b>2</b><br>pnp/npn                     | <b>2</b><br>pnp 0.5kHz<br>npn 50kHz  | <b>15</b> | <b>2</b> (Isolated)<br>0-10 V, 4-20mA<br>12-bit | 24VDC             |
| V200-18-E46B              | <b>18</b><br>pnp/npn            | <b>2</b><br>10kHz 32-bit       | <b>6</b><br>0-10 V,0-20mA,4-20mA<br>14-bit<br><b>3</b><br>0-10 V,0-20mA,4-20mA<br>10-bit                        | —                       | <b>2</b><br>pnp/npn                     | <b>2</b><br>pnp 0.5kHz<br>npn 100kHz | <b>15</b> | <b>2</b> (Isolated)<br>0-10 V, 4-20mA<br>12-bit | 24VDC             |
| V200-18-E62B <sup>3</sup> | <b>30</b><br>pnp/npn            | <b>2</b><br>10kHz 32-bit       | <b>2</b><br>0-10 V,0-20mA,4-20mA<br>10-bit                                                                      | —                       | <b>28</b><br>pnp<br><b>2</b><br>npn/pnp | <b>2</b><br>pnp 0.5kHz<br>npn 100kHz | —         | —                                               | 24VDC             |

<sup>1</sup> The total number of digital inputs listed includes high-speed inputs.  
<sup>2</sup> The total number of digital outputs listed includes high-speed outputs.  
<sup>3</sup> Not yet UL certified

Vision & Samba COM Modules

Enhance Vision’s communication capabilities

| Model                                 | Ethernet                             | RS232/RS485 | Isolated RS232/RS485 | CANbus                               | Profibus    |
|---------------------------------------|--------------------------------------|-------------|----------------------|--------------------------------------|-------------|
| SAMBA                                 | V100-17-ET2                          | V100-17-RS4 | V100-17-RS4X         | V100-17-CAN                          | —           |
| V130, V350, V430 <sup>1</sup>         | V100-17-ET2, V100-S-ET2 <sup>5</sup> | V100-17-RS4 | V100-17-RS4X         | V100-17-CAN, V100-S-CAN <sup>5</sup> | V100-17-PB1 |
| V560, V570, V1040, V1210 <sup>2</sup> | V200-19-ET2                          | V200-19-RS4 | V200-19-RS4-X        | Built-in                             | —           |
| V700 <sup>4</sup>                     | Built-in                             | V100-17-RS4 | V100-17-RS4X         | V100-17-CAN                          | V100-17-PB1 |

<sup>1</sup> V130/V350/V430: Two ports may be added: 1 for Serial/Ethernet/Profibus and 1 for CANbus.  
<sup>2</sup> V560/V570/V1040/V1210: 1 port may be added: Serial/Ethernet.  
<sup>3</sup> Extended temperature cards, operational temperature : -30°C to 60°C (-22°F to 140°F) - for V350-JS-TA24 only.  
<sup>4</sup> V700 is supplied with an Built-in Ethernet port. One port may be added: serial/Profibus, and CANbus.  
<sup>5</sup> Not yet UL certified

DIN-rail Power Supplies

| UAP-24V24W | UAP-24V60W   | UAP-24V96W |
|------------|--------------|------------|
| 24W 24V 1A | 60W 24V 2.5A | 96W 24V 4A |

GSM

| GSM-KIT-17J-3G                    |
|-----------------------------------|
| KIT, MODEM GPRS, CINTERION, EHS6T |

NEW!

# Moving your Control Forward – Variable Frequency Drives

Use our VFDs as a stand-alone product or integrated with our PLC+HMI controllers.



## VFD: Easy to Program. Simple to Use.

- EMC built-in filters
  - Variety of mounting options
  - Temperature - extended operating range
  - Modbus RTU fieldbus
  - UL, TÜV-SÜD safety and CE certified
- Braking units - built-in
  - Sensorless Vector and Torque control
  - Heavy-duty overload capacity
  - STO (Safe Torque Off)

## Use as an All-in-One package

Program the VFD using the same programming software as our controllers: UniStream®, Vision™ and Samba™



## VFD Specifications

|            |                         | UMI-B1 EU                                                                                      | UMI-B1 UL                                                                      | UMI-B5 UL                                                                                                      |
|------------|-------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Power      | Input Voltage           | 200-240VAC, Single Phase<br>380-440VAC, Three Phase                                            | 200-240VAC, Single Phase<br>200-240VAC, Three Phase<br>380-480VAC, Three Phase | 200-240VAC, Three Phase<br>380-480VAC, Three Phase                                                             |
|            | Input Frequency         | 50/60Hz                                                                                        |                                                                                |                                                                                                                |
|            | Supported Motors        | Asynchronous Induction Motors, Three Phase Input                                               |                                                                                | Asynchronous Induction Motors, Three Phase Input<br><br>Permanent Magnet Synchronous Motors, Three Phase Input |
|            | Output Frequency        | 0-400Hz                                                                                        |                                                                                |                                                                                                                |
|            | Overload Capacity       | 150%, 60 seconds                                                                               |                                                                                |                                                                                                                |
|            |                         | 180%, 10 seconds                                                                               |                                                                                |                                                                                                                |
|            |                         | 200%, 1 second                                                                                 |                                                                                |                                                                                                                |
| Control    | Control Method          | SVPWM (Space Vector PWM)<br>SVC (Sensorless Vector Control)                                    |                                                                                |                                                                                                                |
|            | Control Setting         | MODBUS, Analog, Digital, PID, Pulse                                                            |                                                                                |                                                                                                                |
|            | Communication           | MODBUS RTU RS-485                                                                              |                                                                                |                                                                                                                |
| Input      | Analog Inputs           | Total 2: 1 input 0-10V, 0-20mA,<br>1 input 0-10V                                               |                                                                                | Total 3: 2 inputs 0-10V, 0-20mA,<br>1 input 0-10V                                                              |
|            | Digital Inputs          | Total 5: 4 inputs 1kHz,<br>1 input 50kHz                                                       |                                                                                | Total 9: 8 inputs 1kHz,<br>1 input 50kHz                                                                       |
| Output     | Analog Outputs          | Up to 2: 1 output 0-10V,<br>0-20mA ≤2.2kW/3HP,<br>(2nd output available from<br>>2.2kW/3HP)    | 2 outputs 0-10V, 0-20mA                                                        |                                                                                                                |
|            | Digital Outputs         | 1 output sink/source                                                                           |                                                                                | Total 2: 1 output sink/source,<br>1 output 50kHz                                                               |
|            | Relay Outputs           | Up to 2: 1 Programmable<br>Multi-functional output.<br>2nd output available from<br>>2.2kW/3HP | Total 2 Programmable Multi-functional outputs                                  |                                                                                                                |
| Features   | Dynamic Braking Unit    | Built-in (≤37kW/50HP)                                                                          |                                                                                | Built-in (≤30kW/40HP)                                                                                          |
|            |                         | Optional (>37kW/50HP)                                                                          |                                                                                | Optional (>30kW/40HP)                                                                                          |
|            | EMC Filters             | Built-In C3 (≥4kW/5HP), Comply with IEC/EN 61800-3                                             |                                                                                | Built-In C3, Comply with IEC/EN 61800-3                                                                        |
|            |                         | Optional C3 (<4kW/5HP), Comply with IEC/EN 61800-3                                             |                                                                                |                                                                                                                |
|            |                         | Optional C2, Comply with IEC/EN 61800-3                                                        |                                                                                |                                                                                                                |
| General    | Operating Temperature   | (-10)°C/14°F – 50°C/122°F (de-rated by 1% for every 1°C/2°F above 40°C/104°F)                  |                                                                                |                                                                                                                |
|            | Altitude                | 2000m/6600 ft (de-rated by 1% for every additional 100m/330ft above 1000m/3300ft)              |                                                                                |                                                                                                                |
|            | Enclosure Rating        | IP20                                                                                           |                                                                                |                                                                                                                |
|            | Mounting Options        | Wall and Rail (≤2.2kW/3HP)                                                                     |                                                                                | Wall, Flange                                                                                                   |
|            |                         | Wall and Flange (>2.2kW/3HP)                                                                   |                                                                                |                                                                                                                |
|            | Cooling                 | Air-cooling                                                                                    |                                                                                |                                                                                                                |
|            | Safe Torque Off         | √                                                                                              | ×                                                                              |                                                                                                                |
| Compliance | CE, TÜV-SÜD Safety Mark | CE, UL and cUL                                                                                 |                                                                                |                                                                                                                |

VFD Models

UMI-B1 Series - ST0



| Article Number | Input Voltage         | Rated Output Power |     | Rated Input Current (A) | Rated Output Current (A) | Dimensions (W x H x D mm) |     |     | Safety Class         |
|----------------|-----------------------|--------------------|-----|-------------------------|--------------------------|---------------------------|-----|-----|----------------------|
|                |                       | kW                 | HP  |                         |                          |                           |     |     |                      |
| UMI-0004BE-B1  | Single phase 200-240V | 0.4                | 0.5 | 6.5                     | 2.5                      | 80                        | 160 | 124 | Class SIL2 PLd CAT.3 |
| UMI-0007BE-B1  |                       | 0.75               | 1   | 9.3                     | 4.2                      | 80                        | 160 | 124 |                      |
| UMI-0015BE-B1  |                       | 1.5                | 2   | 15.7                    | 7.5                      | 80                        | 185 | 141 |                      |
| UMI-0022BE-B1  |                       | 2.2                | 3   | 24                      | 10                       | 80                        | 185 | 141 |                      |
| UMI-0007EE-B1  |                       | 0.75               | 1   | 3.4                     | 2.5                      | 80                        | 185 | 141 |                      |
| UMI-0015EE-B1  | Three phase 380-440V  | 1.5                | 2   | 5                       | 4.2                      | 80                        | 185 | 141 | Class SIL2 PLd CAT.3 |
| UMI-0022EE-B1  |                       | 2.2                | 3   | 5.8                     | 5.5                      | 80                        | 185 | 141 |                      |
| UMI-0040EE-B1  |                       | 4                  | 5   | 13.5                    | 9.5                      | 146                       | 256 | 167 |                      |
| UMI-0055EE-B1  |                       | 5.5                | 7.5 | 19.5                    | 14                       | 146                       | 256 | 167 | Class SIL3 PLd CAT.3 |
| UMI-0075EE-B1  |                       | 7.5                | 10  | 25                      | 18.5                     | 170                       | 320 | 197 |                      |
| UMI-0110EE-B1  |                       | 11                 | 15  | 32                      | 25                       | 170                       | 320 | 197 |                      |
| UMI-0150EE-B1  |                       | 15                 | 20  | 40                      | 32                       | 170                       | 320 | 197 |                      |
| UMI-0185EE-B1  |                       | 18.5               | 25  | 47                      | 38                       | 200                       | 341 | 185 |                      |
| UMI-0220EE-B1  |                       | 22                 | 30  | 51                      | 45                       | 200                       | 341 | 185 |                      |
| UMI-0300EE-B1  |                       | 30                 | 40  | 70                      | 60                       | 250                       | 400 | 202 |                      |
| UMI-0370EE-B1  |                       | 37                 | 50  | 80                      | 75                       | 250                       | 400 | 202 |                      |
| UMI-0450EE-B1  |                       | 45                 | 60  | 98                      | 92                       | 282                       | 560 | 238 |                      |
| UMI-0550EE-B1  |                       | 55                 | 75  | 128                     | 115                      | 282                       | 560 | 238 |                      |
| UMI-0750EE-B1  |                       | 75                 | 100 | 139                     | 150                      | 282                       | 560 | 238 |                      |
| UMI-0900EE-B1  |                       | 90                 | 120 | 168                     | 180                      | 338                       | 554 | 330 |                      |
| UMI-1100EE-B1  |                       | 110                | 150 | 201                     | 215                      | 338                       | 554 | 330 |                      |

Optional Parts



Product Designation Key

|            |   |   |   |    |
|------------|---|---|---|----|
| UMI - 0022 | E | U | - | B1 |
| ①          | ② | ③ | ④ | ⑤  |

| No. | Key            | Description                                                   |
|-----|----------------|---------------------------------------------------------------|
| ①   | Product Line   | Unitronics Motion Inverters                                   |
| ②   | Power Range    | 0004:400W/0.5HP<br>0022:2.2kW/3HP                             |
| ③   | Power Rating   | B: 1PH 200V-240V<br>C: 3PH 200V-240V<br>E: 3PH 380V-440V/480V |
| ④   | Certification  | U – UL Certified<br>E – TÜV-SÜD Certified                     |
| ⑤   | Product series | B1 / B5                                                       |

UMI-B1 Series - UL



| Article Number | Input Voltage         | Rated Output Power |     | Rated Input Current (A) | Rated Output Current (A) | Dimensions (W x H x D mm) |     |     |
|----------------|-----------------------|--------------------|-----|-------------------------|--------------------------|---------------------------|-----|-----|
|                |                       | kW                 | HP  |                         |                          |                           |     |     |
| UMI-0004BU-B1  | Single phase 200-240V | 0.4                | 0.5 | 6.5                     | 2.5                      | 80                        | 160 | 124 |
| UMI-0007BU-B1  |                       | 0.75               | 1   | 9.3                     | 4.2                      | 80                        | 160 | 124 |
| UMI-0015BU-B1  |                       | 1.5                | 2   | 15.7                    | 7.5                      | 80                        | 185 | 141 |
| UMI-0022BU-B1  |                       | 2.2                | 3   | 20                      | 10                       | 80                        | 185 | 141 |
| UMI-0004CU-B1  | Three phase 200-240V  | 0.4                | 0.5 | 3.7                     | 2.5                      | 80                        | 185 | 141 |
| UMI-0007CU-B1  |                       | 0.75               | 1   | 5                       | 4.2                      | 80                        | 185 | 141 |
| UMI-0007EU-B1  | Three phase 380-480V  | 0.75               | 1   | 3.4                     | 2.5                      | 80                        | 185 | 141 |
| UMI-0015EU-B1  |                       | 1.5                | 2   | 5                       | 4.2                      | 80                        | 185 | 141 |
| UMI-0022EU-B1  |                       | 2.2                | 3   | 5.8                     | 5.5                      | 80                        | 185 | 141 |

UMI-B5 Series - UL



| Article Number | Input Voltage        | Rated Output Power |     | Rated Input Current (A) | Rated Output Current (A) | Dimensions (W x H x D mm) |     |     |
|----------------|----------------------|--------------------|-----|-------------------------|--------------------------|---------------------------|-----|-----|
|                |                      | kW                 | HP  |                         |                          |                           |     |     |
| UMI-0007CU-B5  | Three phase 200-240V | 0.75               | 1   | 5                       | 4.5                      | 126                       | 193 | 175 |
| UMI-0015CU-B5  |                      | 1.5                | 2   | 7.7                     | 7                        | 146                       | 263 | 181 |
| UMI-0022CU-B5  |                      | 2.2                | 3   | 11                      | 10                       | 146                       | 263 | 181 |
| UMI-0040CU-B5  |                      | 4                  | 5   | 17                      | 16                       | 170                       | 332 | 216 |
| UMI-0055CU-B5  |                      | 5.5                | 7.5 | 21                      | 20                       | 170                       | 332 | 216 |
| UMI-0075CU-B5  |                      | 7.5                | 10  | 31                      | 30                       | 230                       | 342 | 216 |
| UMI-0110CU-B5  |                      | 11                 | 15  | 43                      | 42                       | 255                       | 407 | 245 |
| UMI-0150CU-B5  |                      | 15                 | 20  | 56                      | 55                       | 255                       | 407 | 245 |
| UMI-0185CU-B5  |                      | 18.5               | 25  | 71                      | 70                       | 270                       | 555 | 325 |
| UMI-0220CU-B5  |                      | 22                 | 30  | 81                      | 80                       | 270                       | 555 | 325 |
| UMI-0300CU-B5  |                      | 30                 | 40  | 112                     | 110                      | 270                       | 555 | 325 |
| UMI-0370CU-B5  |                      | 37                 | 50  | 132                     | 130                      | 325                       | 680 | 365 |
| UMI-0450CU-B5  |                      | 45                 | 60  | 163                     | 160                      | 325                       | 680 | 365 |
| UMI-0550CU-B5  |                      | 55                 | 75  | 200                     | 200                      | 325                       | 680 | 365 |
| UMI-0015EU-B5  | Three phase 380-480V | 1.5                | 2   | 5                       | 3.7                      | 126                       | 193 | 175 |
| UMI-0022EU-B5  |                      | 2.2                | 3   | 5.8                     | 5                        | 126                       | 193 | 175 |
| UMI-0040EU-B5  |                      | 4                  | 5   | 13.5                    | 9.5                      | 146                       | 263 | 181 |
| UMI-0055EU-B5  |                      | 5.5                | 7.5 | 19.5                    | 14                       | 146                       | 263 | 181 |
| UMI-0075EU-B5  |                      | 7.5                | 10  | 25                      | 18.5                     | 170                       | 332 | 216 |
| UMI-0110EU-B5  |                      | 11                 | 15  | 32                      | 25                       | 170                       | 332 | 216 |
| UMI-0150EU-B5  |                      | 15                 | 20  | 40                      | 32                       | 230                       | 342 | 216 |
| UMI-0185EU-B5  |                      | 18.5               | 25  | 47                      | 38                       | 230                       | 342 | 216 |
| UMI-0220EU-B5  |                      | 22                 | 30  | 56                      | 45                       | 255                       | 407 | 245 |
| UMI-0300EU-B5  |                      | 30                 | 40  | 70                      | 60                       | 255                       | 407 | 245 |
| UMI-0370EU-B5  |                      | 37                 | 50  | 80                      | 75                       | 270                       | 555 | 325 |
| UMI-0450EU-B5  |                      | 45                 | 60  | 94                      | 92                       | 270                       | 555 | 325 |
| UMI-0550EU-B5  |                      | 55                 | 75  | 128                     | 115                      | 270                       | 555 | 325 |
| UMI-0750EU-B5  |                      | 75                 | 100 | 160                     | 150                      | 325                       | 680 | 365 |
| UMI-0900EU-B5  |                      | 90                 | 120 | 190                     | 180                      | 325                       | 680 | 365 |
| UMI-1100EU-B5  |                      | 110                | 150 | 225                     | 215                      | 325                       | 680 | 365 |



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Unitronics' integrated solution for control & automation offers the best of two worlds: broad choice and flexibility in choosing solution components together with the simplicity and time-savings of an all-inclusive, single-vendor solution.

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