Contents [hide]

HORNER AUTOMATION HE959CPU200 Compact and Mounts DIN Rail I/O Module

Product Specifications

- **Required Power (Steady State):** 630 mA at 24VDC
- **Required Power (Inrush):** 35A for 200s 24VDC switched
- **Primary Power Range:** 10-30VDC
- **Relative Humidity:** 5-95% non-condensing
- **Port Wiring (Analog Inputs and Digital I/O):** 12-24 AWG (2.5-0.2mm2)
- **Operating Temperature:** N/A
- **Storage Temperature:** N/A
- **Weight:** 9.77oz (277.1g)
- **Dimensions:** 114.4mm x 124.9mm x 50mm (4.50 x 4.91 x 1.97 in)
- **Certifications (UL/CE):**
  - **North America:** Certifications Link
  - **Europe:** Certifications Link

Product Usage Instructions

Installation

The HE959CPU200 is a compact unit that mounts on a DIN rail. Follow the steps below for proper installation:

1. Ensure that the distance between the wiring duct and the surrounding modules is at least 50mm apart.
2. Add OCS-I/O modules after the OCS-I/O base has been installed on the DIN rail.

Modules can be hot-swapped with power applied.

3. Connect the bus connectors to form a backplane that can accept up to 8 modules, including the CPU200 or another base.
4. Snap the bus connectors into the DIN rail following EN 60715 standards.
5. Place the CPU200 on the leftmost connector and insert additional modules by latching at the top of the DIN rail first, then rocking each module down until it engages at the bottom of the DIN rail.

Safety

Follow all applicable codes and standards during the installation of this product to ensure safety.

Warnings

- **WARNING:** If the equipment is used in a manner not specified by Horner APG, the protection provided may be impaired.
- **WARNING:** Do not disconnect equipment unless power has been removed or the area is known to be non-hazardous.
- **WARNING:** Substitution of any component may impair suitability for Class I, Division 2.
- **WARNING:** Outputs should be connected to the same voltage levels (all connect to 24V supply sources).

General Specifications

Required Power (Steady State)	630 mA at 24VDC
Required Power (Inrush)	35A for 200µs 24VDC switched
Primary Power Range	10-30VDC
Relative Humidity	5-95% non-condensing
Port Wiring (Analog Inputs and Digital I/O)	12-24 AWG (2.5-0.2mm2)

Operating Temperature	-40°C (-40°F) to 60°C (140°F)
Storage Temperature	-40°C (-40°F) to 70°C (158°F)
Weight	9.77oz (277.1g)
Dimensions	114.4mm x 124.9mm x 50mm 4.50” x 4.91” x 1.97”
Certifications (UL/CE)	**North America:** https://hornerautomation.com/certifications/ **Europe:** https://www.hornerautomation.eu/support/certifications-2/

Connectivity	
Serial Ports	1 x RS-232, 1 x RS-485
CAN Protocols	CsCAN
CAN Port Speeds Support	125kb, 250kb, 500kb, 1Mb/sec.
Ethernet	1 x 10/100Mbps
Communication Support	WebMI, E-mail, TCP/IP, Modbus, FTP, Datalogging
USB Type C Note: The Device does not enter run mode when on USB power only	Programming, Power Unit

INSTALLATION

- The HE959CPU200 is compact and mounts on a DIN rail. Each I/O module installed

adds width in increments of 19mm.

NOTE: The distance between the wiring duct and surrounding modules should be at least 50mm apart.

- OCS-I/O modules can be added after the OCS-I/O base has been installed on the DDIN rail and can be hot-swapped with power applied. I/O scanning will stop until the correct modules for the system are detected in all slots.
- I/O modules are physically added with the following procedure:
  1. Connect the bus connectors to form a backplane that can accommodate up to 8 modules, including the CPU200 or another base module.
  2. Snap the bus connectors into the DIN rail. The DIN rail should be 35 mm x 7.5 mm and made to EN 60715 standards.
  3. Place the CPU200 in the leftmost connector.
  4. Insert modules by latching at the top of the DIN rail first, then rocking each module down until the latch at the bottom of the DIN rail engages.
  5. To remove a module, insert a flat-blade screwdriver into the metal DIN rail latch at the bottom of the module. Press downwards to release the latch, then rock the module up and off the DIN Rail.

     NOTE: Modules may be removed while powered; however, I/O scanning on the remaining modules will stop, and I/O will go to the default state until a new module is inserted and all modules in the configuration are present.

SAFETY

- All applicable codes and standards should be followed in the installation of this product.
- Shielded, twisted-pair wiring should be used for best performance.
- Shields should be grounded at one end only, preferably at the end providing the best noise shunting.

SAFETY WARNINGS

- **WARNING**

  If the equipment is used in a manner not specified by Horner APG, the protection it provides may be impaired.
- **WARNING – EXPLOSION HAZARD**

Do not disconnect equipment unless power has been removed or the area is known to be non-hazardous

- **WARNING – EXPLOSION HAZARD**
  Substitution of any component may impair suitability for Class I, Division 2
- **WARNING – POSSIBLE EQUIPMENT DAMAGE**
  Remove power from the I/O Base and any peripheral equipment connected to this local system before adding or replacing this or any module.
- **WARNING**
  Outputs should be connected to the same voltage levels (all connected to 24V supply sources)
- **WARNING**
  Digital Outputs are non-isolated and considered hazardous live.
- **WARNING**
  Loads for outputs require a Class 2 or Limited Power Source from a UL-listed power supply.

TECHNICAL SUPPORT

- For further details, please refer to the Datasheets on the Horner website.
- For assistance, contact Technical Support at the following locations:
  - **North America**
    - +1 317-916-4274
    - www.hornerautomation.com
    - APGUSATechSupport@heapg.com
  - **Europe**
    - +353 (21) 4321-266
    - www.hornerautomation.eu
    - technical.support@horner-apg.com

FAQ

- **Can modules be removed while powered?**
  Yes, modules may be removed while powered; however, I/O scanning on the remaining modules will stop, and I/O will go to the default state until a new module is inserted and all modules in the configuration are present.

- **What are the primary power requirements for the HE959CPU200?**
  The HE959CPU200 requires a steady state power of 630 mA at 24VDC and an inrush power of 35A for 200s at 24VDC switched.

Documents / Resources

	HORNER AUTOMATION HE959CPU200 Compact and Mounts DIN Rail I-O Module [pdf] User Guide HE959CPU200, HE959CPU200 Compact and Mounts DIN Rail I-O Module, Compact and Mounts DIN Rail I-O Module, DIN Rail I-O Module, Rail I-O Module, Module

References

- User Manual

HORNER AUTOMATION

Compact and Mounts DIN Rail I-O Module, DIN Rail I-O Module, HE959CPU200, HE959CPU200 Compact and Mounts DIN Rail I-O Module, HORNER AUTOMATION, Module, Rail I-O Module

Leave a comment

Your email address will not be published. Required fields are marked *

Comment *

Name

Email

Website

Save my name, email, and website in this browser for the next time I comment.

Post Comment

Search:

e.g. whirlpool wrf535swhz

Search