Manuals+ — User Manuals Simplified.

UNO-2272G Embedded Automation Computers

Advantech UNO-2272G Embedded Automation Computers Owner's Manual

Contents

Advantech UNO-2272G Embedded Automation Computers

Introduction

Advantech's UNO-2000 series of Embedded Automation Computers are fanless, with a highly ruggedized embedded operating system (Linux-Embedded). The series also includes iDoor technology which supports automation feature extensions such as industry fieldbus communication, Wi-Fi/3G, and Digital I/O, including palm, small, and regular-size form factors with indicated market segments in terms of entry, value, and performance product positioning. Both entry and value Embedded Automation Computers feature specific functions and they are suitable for data gateway, concentrator, and data server applications. The performance model can shorten your development time and offer multiple networking interfaces to fulfill a diverse range of requirements.

Features

- Intel® Atom™ N2800/J1900 processors with 2GB DDR3/DDR3L memory
- 1 x GbE, 3 x USB 2.0/3.0, 1 x COM, 1 x VGA or HDMI, audio
- Compact with fanless design
- Rubber stopper design with captive screws
- Diverse system I/O and isolated digital I/O by iDoor technology
- Supports Fieldbus protocol by iDoor technology
- 3G/GPS/GPRS/Wi-Fi communication by iDoor technology
- Supports MRAM by iDoor technology

Specifications

General

- Certification CE, FCC, UL, CCC, BSMI
- Dimensions (W x D x H) 157 x 88 x 50 mm (6.2″ x 3.5″ x 2.0″)
- Form Factor Palm Size
- Enclosure Aluminum Housing
- Mounting Stand, Wall, VESA (Optional), DIN-rail (Optional)
- Weight (Net) 0.8 kg (1.76 lbs)
- Power Requirement 24VDC ± 20%
- Power Consumption 14W (Typical), 45.3W (Max)
- OS Support Microsoft® Windows 7, Windows 10, Advantech Linux

System Hardware

- BIOS AMI EFI64 Mbit
- Watchdog Timer Programmable 256 levels timer interval, from 1 to 255 sec
- Processor Intel Celeron Quad Core J1900 2.0 GHz
- System Chip Intel Atom SoC integrated
- Memory Built-in 2GB DDR3L 1333 MHz, up to 8GB
- Graphics Engine Intel® HD Graphics
- Ethernet Intel i210 GbE, 802.10av, IEEE1588/802.1AS, 803.3az
- LED Indicators LEDs for Power, HDD, LAN ((Active, Status)
- Storage 1 x half-size mSATA

Supports HDD/SSD by project

- Expansion 2 x Full-size mPCIe slot
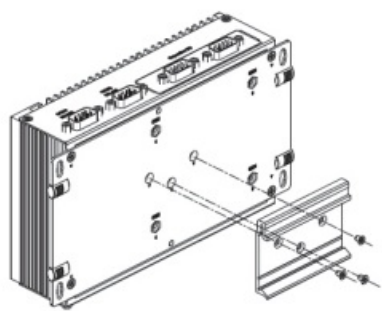
I/O Interfaces

- Serial Ports 1 x RS-232 (RS-422/485 by BIOS option), DB9, 50 ~ 115.2kbps
- LAN Ports 1 x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000BASE-T Fast Ethernet
- USB Ports 2 x USB 2.0 and 1 x USB 3.0
- Displays 1 x HDMI, supports 1920 x 1080 @ 60Hz
- Audio Line-Out
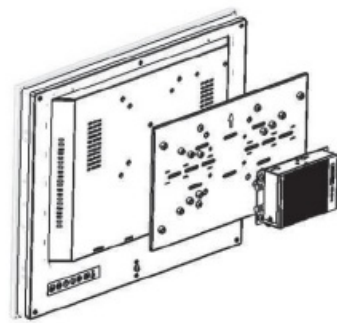- Power Connector 1 x 2 Pins, Terminal Block

Environment

- Operating Temperature -10 ~ 55°C (14 ~ 131) @ 5 ~ 85% RH with 0.7 m/s airflow
- Storage Temperature – 40 ~ 85°C (-40 ~ 185°F)
- Relative Humidity 10 ~ 95% RH @ 40°C, non-condensing
- Shock Protection Operating, IEC 60068-2-27, 50G, half sine, 11 ms
- Vibration Protection Operating, IEC 60068-2-64, 2 Grms, random, 5 ~ 500 Hz, 1hr/axis (mSATA)
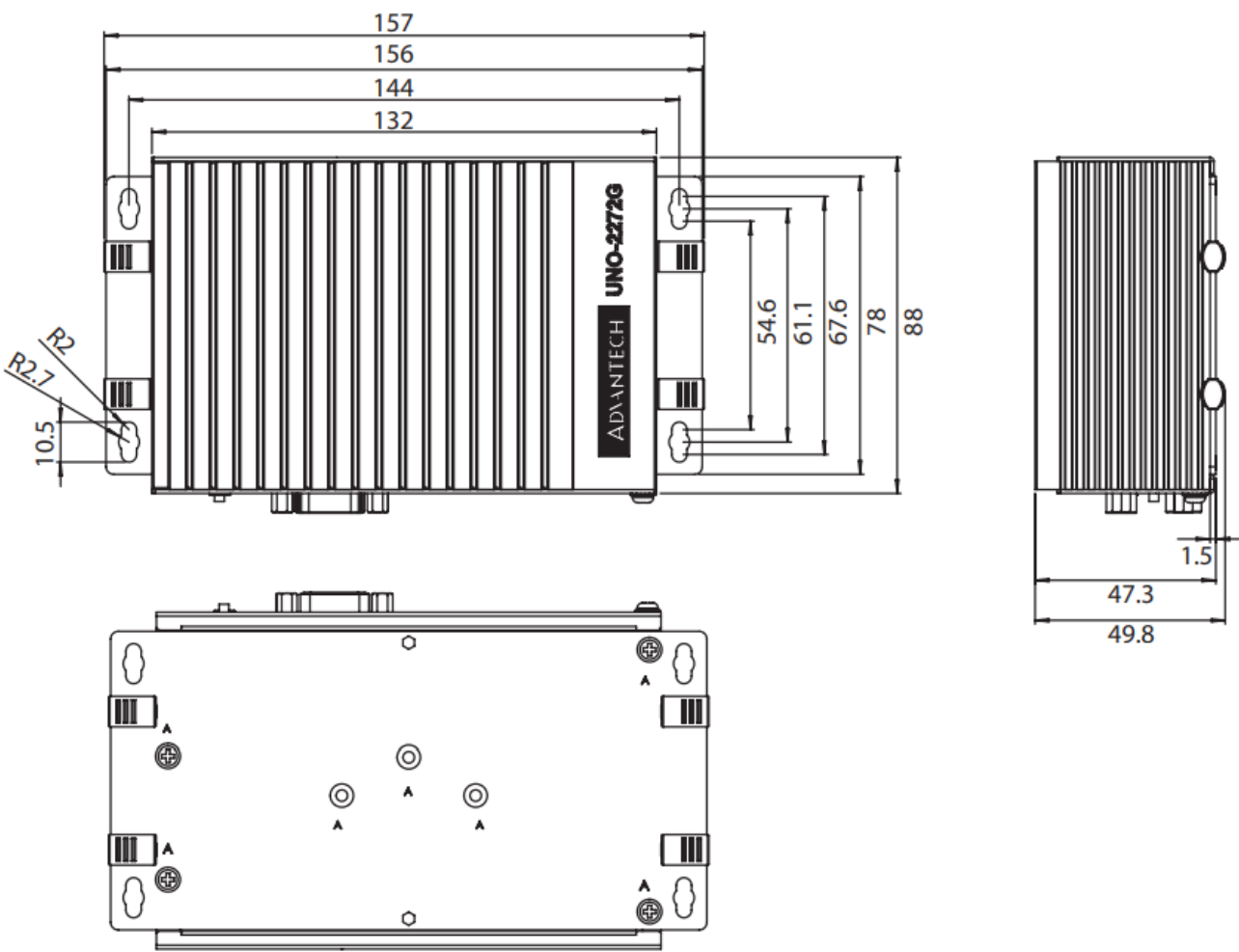- Ingress Protection IP40
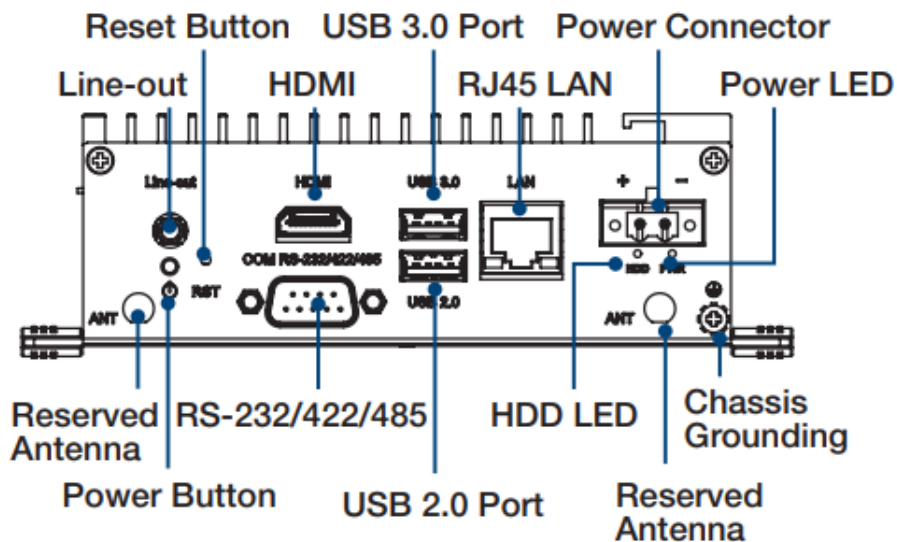
Installation Scenario

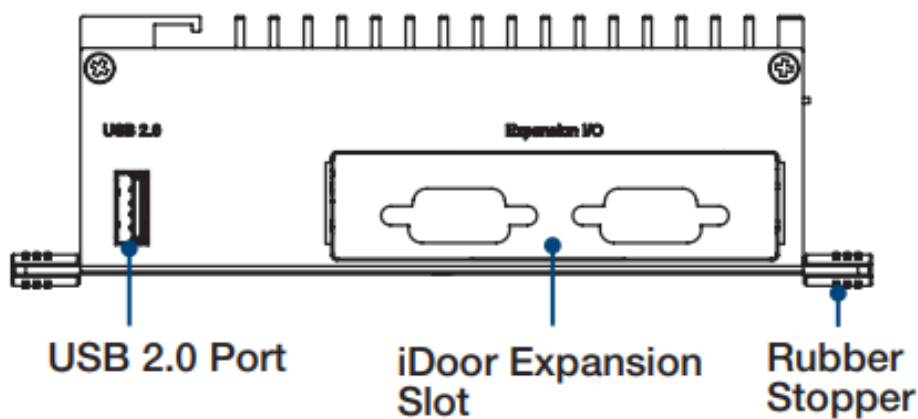**DIN-rail Mount Illustration**　　　　**VESA Mount Illustration**

Dimensions

Front I/O View

Reset Button   USB 3.0 Port   Power Connector

Line-out   HDMI   RJ45 LAN   Power LED

Reserved Antenna   RS-232/422/485   HDD LED   Chassis Grounding

Power Button   USB 2.0 Port   Reserved Antenna

Rear I/O View

USB 2.0 Port   iDoor Expansion Slot   Rubber Stopper

Ordering Information
UNO-2272G-J2AE Intel Celeron J1900 2.0GHz, 2GB, 1xLANs, 2xmPCIe

Optional Accessories

- 96PSA-A60W24T2-3 60WC to DC UNO series power adapter (Industrial Grade)
- 1702002600 Power Cable US Plug 1.8 M (Industrial Grade)
- 1702002605 Power Cable EU Plug 1.8 M (Industrial Grade)
- 1702031801 Power Cable UK Plug 1.8 M (Industrial Grade)
- 1700000596 Power Cable China/Australia Plug 1.8 M (Industrial Grade)
- UNO-2000G-DMKAE UNO-2000 DIN Rail Kit
- UNO-2000G-VMKAE UNO-2000 VESA Mount Kit

iDoor Modules

- PCM-2300MR-BE MR4A16B, MRAM, 2 MByte, mPCIe
- PCM-23U1DG-BE Internal locked USB Slot for USB Dongle
- PCM-24D2R2-BE 2-Port Isolated RS-232 mPCIe, DB9
- PCM-24D2R4-BE Isolated RS-422/485, DB9 x 2, (USB type)

- PCM-24D4R2-BE 4-Port Non-Isolated RS-232 mPCIe, DB37
- PCM-24D4R4-BE Non-Isolated RS-422/485, DB37 x 1 (USB Type)
- PCM-24R1TP-BE Intel I225, 2.5Gb/s, IEEE 1588, TSN, RJ45*1
- PCM-24R2GL-AE 2-Port Gigabit Ethernet, mPCIe, RJ45
- PCM-24S2WF-BE WiFi 802.11 ac/a/b/g/n 2T2R w/Bluetooth 4.1
- PCM-24S34G-CE EG-25G LTE/HSPA+/GPRS, mPCIe, Ant
- PCM-27D24DI-AE 24-Channel Isolated Digital I/O w/ counter mPCIe, DB37

Embedded O/S

- 20703WE7PS0000 WES7P x64MUI v4.18 B008 image
- 2070014984 WES7P X86 MUI V4.16 B004 image
- 2070014957 WIN10ENT 2016LTSB v6.01 B023 image
- 2070014939 WEC7 MUI V4.02 B088 image

Please note: If some optional modules are offered with the system, additional system certificates may be required in certain regions/countries.
Please contact Advantech for certificate compliance.

Online Download **www.advantech.com/products**

Documents / Resources

	Advantech UNO-2272G Embedded Automation Computers [pdf] Owner's Manual UNO-2272G Embedded Automation Computers, UNO-2272G, Embedded Automation Computers, Automation Computers

References

- **User Manual**