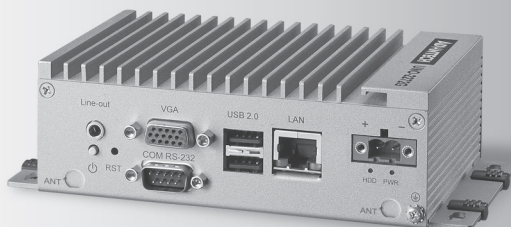


UNO-2272G

Intel® Atom™ Palm-Size Automation
Computer with 1 x GbE, 2 x mPCIe,
VGA/HDMI

NEW



iDoor susiAccess



Introduction

Advantech's UNO-2000 series of Embedded Automation Computers are Fanless with highly ruggedized with an embedded operating system (Linux-Embedded). It also includes iDoor technology which supports automation feature extensions such as industry fieldbus communication, Wi-Fi/3G, 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.

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)
- Weight (Net)** 0.8 kg (1.76 lbs)
- Power Requirement** 24Vdc ± 20%
- Power Consumption** 12W (Typical), 20W (Max)
- OS Support** Microsoft® Windows 7, WES7, Advantech Linux

System Hardware

- BIOS** AMI EFI64 Mbit
- Watchdog Timer** Programmable 256 levels timer interval, from 1 to 255 sec
- Processor** Intel Atom Dual Core N2800 1.86 GHz
Intel Atom Quad Core J1900 2 GHz
Intel Atom SoC integrated
- System Chip** Built-in 2GB DDR3 1600 MHz for UNO-2272G-N2AE
- Memory** Built-in 2GB DDR3L 1333 MHz for UNO-2272G-J2AE
- Graphics Engine** Intel® HD Graphics
- Ethernet** Intel® 82583V GbE, 802.1Qav, IEEE1588/802.1AS, 802.3az
Intel® 82583V GbE, 802.1Qav, for UNO-2272G-N2AE
Intel® i210 GbE, 802.1Qav, for UNO-2272G-J2AE
- LED Indicators** LEDs for Power, HDD, LAN (Active/Status)
- Storage** 1 x half-size mSATA for UNO-2272G-J2AE
1 x full-size mSATA for UNO-2272G-N2AE
Supports HDD/SSD by project
- Expansion** 1 x Full-size mPCIe slot, 1 x Half-size mPCIe slot, mPCIe Rev. 2.0 for UNO-2272G-N2AE
2 x Full-size mPCIe slot, mPCIe Rev. 2.0 for UNO-2272G-J2AE

I/O Interfaces

- Serial Ports** 1 x RS-232, DB9, 50~115.2kbps (J2AE: 1 x RS-232/422/485 by BIOS option)
- LAN Ports** 1 x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000Base-T Fast Ethernet
- USB Ports** 3 x USB 2.0 for UNO-2272G-N2AE
2 x USB 2.0 and 1 x USB 3.0 for UNO-2272G-J2AE
- Displays** 1 x VGA, supports 1920x1200 @ 60Hz 24bpp for UNO-2272G-N2AE
1 x HDMI, supports 1920 x 1080 @ 60Hz for UNO-2272G-J2AE
- Audio** Line-Out
- Power Connector** 1 x 2 Pins, Terminal Block
- Grounding Protection** Chassis Grounding

Features

- Intel® Atom™ N2800/J1900 Processors up to 2.41 GHz with 2GB DDR3/DDR3L Memory
- 1 x GbE, 3 x USB 2.0/3.0, 1 x RS-232, 1 x VGA or HDMI, Audio
- Comprehensive Palm, Small, Regular-size form-factor
- Compact with Fanless Design
- Rubber Stopper Design with Captive Screw
- Diverse system I/O and Isolated Digital I/O by iDoor Technology
- Supports Fieldbus Protocol by iDoor Technology
- 3G/GPRS/GPRS/Wi-Fi Communication by iDoor Technology
- Supports MRAM by iDoor Technology
- Chassis Grounding Protection

Environment

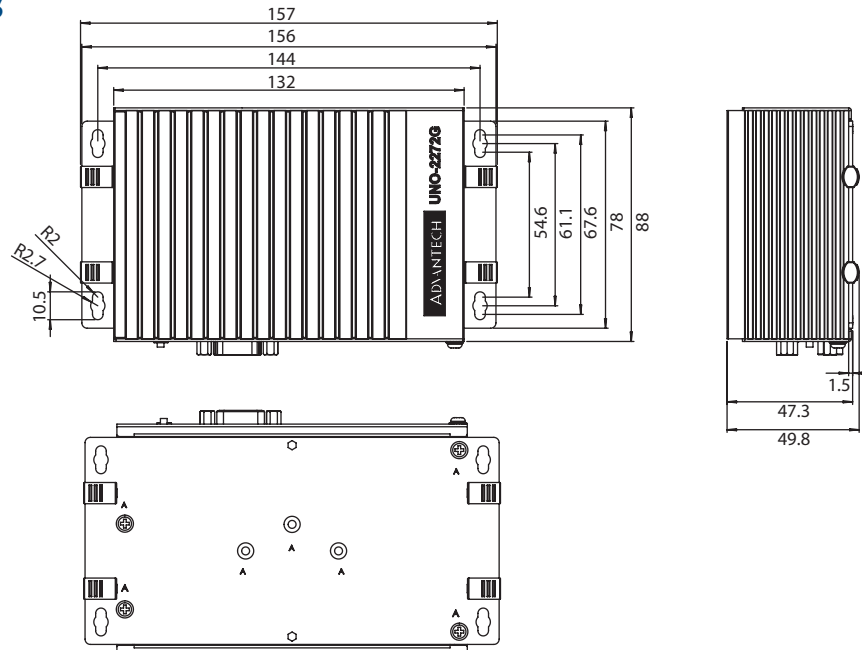
- Operating Temperature** -20 ~ 60°C (-4 ~ 140°F) @ 5 ~ 85% RH with 0.7 m/s airflow for UNO-2272G-N2AE
-10 ~ 55°C (14~131) @ 5 ~ 85% RH with 0.7 m/s airflow for UNO-2272G-J2AE
- Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- Relative Humidity** 10 ~ 95% RH @ 40°C, non-condensing
- Shock Protection** 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

Application Software

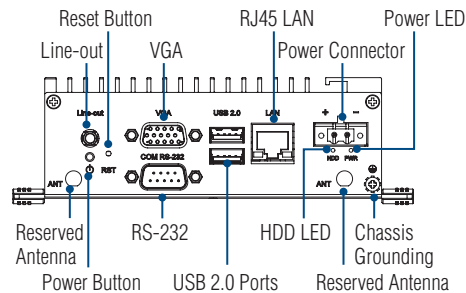
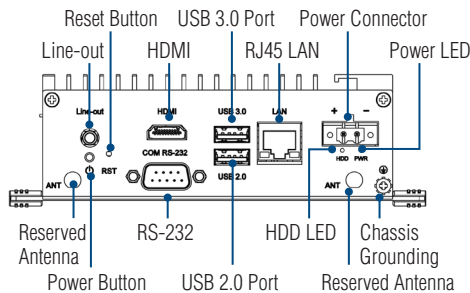
	Version : V2.1 or above An innovative remote device management software, allowing efficient remote monitoring, quick recovery & backup, and real-time remote configuration, to create a more intelligent and interconnected embedded computing solution.
	Version : V7.1 or above WebAccess, as the core of Advantech's IoT solution, is full web browser-based software package for HMI and SCADA software. All HMI and SCADA software features including: Animated Graphics Displays, Real-time Data, Control, Trends, Alarms and Logs, are available in a standard web browser. WebAccess is built around the latest internet technologies. With its open architecture, vertical domain applications can easily be integrated.
	Version : V2.0.3.8 or above Panel Express, a windows based HMI mini SCADA, realizes the cross platform flexibility offered by WebOP Designer to switch hardware for the consideration of cost and performance become an easy job. Panel Express software provides the best economic and express solution for data intensive high-end HMI applications.
	Version : V2.0.3.8 or above An easy to use integrated development tool featuring solution-oriented screen objects, high-end graphics, Windows fonts for multi-language applications. WebOP runtime, a part of WebOP Designer, guarantees reliability and performance because of the minimum system overhead, high communication data rates, and sub-second screen switching.

Dimensions

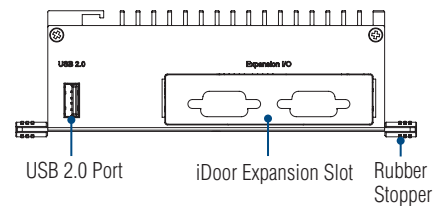
Unit: mm



Front I/O View

UNO-2272G-N2AE

UNO-2272G-J2AE


Rear I/O View



Ordering Information

- UNO-2272G-N2AE** Intel Atom N2800 1.86GHz, 2GB, 1xLANs, 2xmPCIe
- UNO-2272G-J2AE** Intel Atom J1900 2GHz, 2GB, 1xLANs, 2xmPCIe

iDoor Modules

- PCM-24S2WF-AE** 802.11 a/b/g/n 2T2R w/ Bluetooth4.0, Half-size mPCIe, 2-port SMA
- PCM-24U2U3-AE** 2-Port USB 3.0, mPCIe, USB-A type
- PCM-24R2GL-AE** 2-Port Gigabit Ethernet, mPCIe, RJ45
- PCM-24D2R2-AE** 2-Port Isolated RS-232 mPCIe, DB9
- PCM-24D4R4-AE** 4-Port Non-Isolated RS-422/485 mPCIe, DB37
- PCM-24R1TP-AE** 1-Port Gigabit Ethernet, Intel® 82574L, mPCIe, RJ45
- PCM-27D24DI-AE** 24-Channel Isolated Digital I/O w/ counter mPCIe, DB37
- PCM-26D1DB-MAE** 1-Port Hilscher netX100 FieldBus mPCIe, PROFIBUS, DB9, Master
- PCM-26D1DB-SAE** 1-Port Hilscher netX100 FieldBus mPCIe, PROFIBUS, DB9, Slave
- PCM-26R2PN-MAE** 2-Port Hilscher netX100 FieldBus mPCIe, PROFINET, RJ45, Master
- PCM-26R2PN-SAE** 2-Port Hilscher netX100 FieldBus mPCIe, PROFINET, RJ45, Slave

Accessories

- 96PSA-A63W24T2** 63WC to DC UNO series power adapter (Industrial Grade)
- PWR-249-AE** 65W AC to DC power adapter (Commercial 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)
- 1700001524** Power Cable 3-pin US type 1.8 M (Commercial Grade)
- 170203183C** Power Cable 3-pin EU type 1.8 M (Commercial Grade)
- 170203180A** Power Cable 3-pin UK type 1.8 M (Commercial Grade)

Embedded OS & Automation Software

- 2070013098** Image WES7P X86 MUI, V4.12 B001 for UNO-2272G-Nx
- 968WEXP003X** PanelExpress V2.0 300 tags S/W license
- 968WEXP015X** PanelExpress V2.0 1500 tags S/W license
- 968WEXP050X** PanelExpress V2.0 5000 tags S/W license