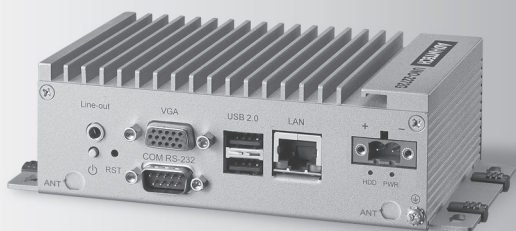


UNO-2272G

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

NEW



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), DIN-Rail (Optional)
▪ Weight (Net)	0.8 kg (1.76 lbs)
▪ Power Requirement	24V _{DC} ± 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 Celeron Quad Core J1900 2 GHz
▪ System Chip	Intel Atom SoC integrated
▪ Memory	Built-in 2GB DDR3 1600 MHz for UNO-2272G-N2AE Built-in 2GB DDR3L 1333 MHz for UNO-2272G-J2AE
▪ Graphics Engine	Intel® HD Graphics
▪ Ethernet	Intel 82583V GbE, 802.10av, IEEE1588/802.1AS, 803.3az for UNO-2272G-N2AE Intel i210 GbE, 802.10av, IEEE1588/802.1AS, 803.3az 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 for UNO-2272G-N2AE 1 x RS-232 (RS-422/485 by BIOS option), DB9, 50-115.2kbps for UNO-2272G-J2AE
▪ 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™/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

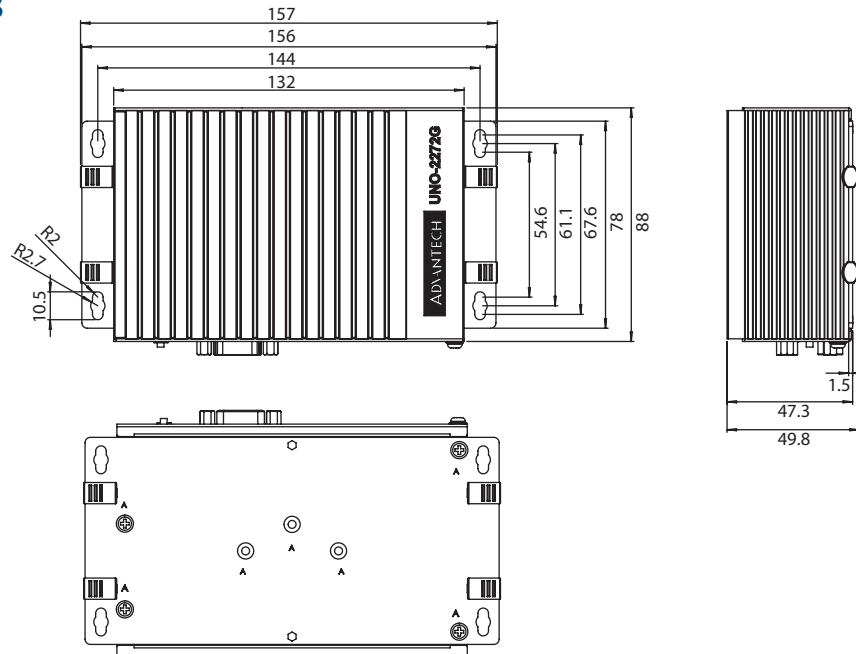
- **Operating Temperature** - 20 ~ 60°C (-4 ~ 140°F) @ 5 ~ 85% RH with 0.7 m/s airflow for UNO-2272G-N2AE
-10 ~ 55°C (14-131) @ 5 ~ 85% RH with 0.7 m/s airflow for UNO-2272G-J2AE
- **Storage Temperature** - 40 ~ 85°C (-40 ~ 185°F)
- **Relative Humidity** 10 ~ 95% RH @ 40°C, non-condensing
- **Shock Protection** 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)
IP40
- **Ingress Protection** IP40

Application Software

susiAccess	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.
WebAccess	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.
PANEL EXPRESS <small>Designed For Convenience</small>	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.
WebOP Designer	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.

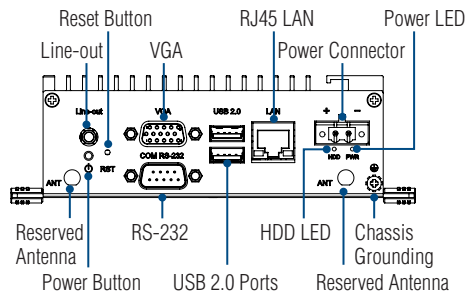
Dimensions

Unit: mm

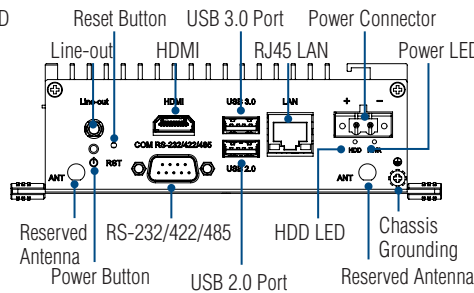


Front I/O View

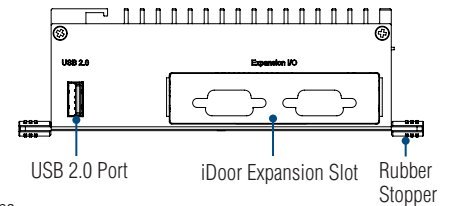
UNO-2272G-N2AE



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