UNO-2272G

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



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











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, 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 Dimensions (W x D x H)

Form Factor

Enclosure

Mounting Weight (Net)

Power Requirement

Power Consumption

OS Support

CE, FCC, UL, CCC, BSMI

157 x 88 x 50 mm (6.2" x 3.5" x 2.0")

Palm Size

Aluminum Housing

Stand, Wall, VESA (Optional), DIN-rail (Optional)

0.8 kg (1.76 lbs)

 $24V_{DC} \pm 20\%$

UNO-2272G-N2AE: Microsoft® Windows 7, Advantech Linux UNO-2272G-J2AE: Microsoft® Windows 7, Windows 10,

Advantech Linux

System Hardware

BIOS

Watchdog Timer

Processor

System Chip

Memory

Graphics Engine

Ethernet

LED Indicators

Storage

Expansion

AMI EFI64 Mbit

Programmable 256 levels timer interval, from 1 to 255 sec

Intel Atom Dual Core N2800 1.86 GHz Intel Celeron Quad Core J1900 2.0 GHz

Intel Atom SoC integrated

Built-in 2GB DDR3 1066 MHz for UNO-2272G-N2AE

Built-in 2GB DDR3L 1333 MHz for UNO-2272G-J2AE, up to

Intel® HD Graphics

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-J2AF

LEDs for Power, HDD, LAN ((Active, Status) 1 x half-size mSATA for UNO-2272G-J2AE 1 x full-size mSATA for UNO-2272G-N2AE

Supports HDD/SSD by project 1 x Full-size mPCle slot, 1 x Half-size mPCle slot for UNO-

2 x Full-size mPCle slot for UNO-2272G-J2AE

I/O Interfaces

Serial Ports

LAN Ports

IISR Ports

Displays

Audio

Power Connector

1 x RS-232 (RS-422/485 by BIOS option), DB9, 50 ~ 115.2kbps for UNO-2272G-J2AE 1 x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000BASE-T Fast

1 x RS-232, DB9, 50 ~ 115.2kbps for UNO-2272G-N2AE

3 x USB 2.0 for UNO-2272G-N2AE 2 x USB 2.0 and 1 x USB 3.0 for UNO-2272G-J2AE 1 x VGA, supports 1920 x 1080 @ 60Hz 24bpp for

UNO-2272G-N2AE 1 x HDMI, supports 1920 x 1080 @ 60Hz for

UNO-2272G-J2AE Line-Out

1 x 2 Pins, Terminal Block

Environment

Operating Temperature

- 20 ~ 60°C (-4 ~ 140°F) @ 5 ~ 85% RH with 0.7 m/s airflow for UNO-2272G-N2AE $-10 \sim 55^{\circ}$ C (14 ~ 131) @ 5 $\sim 85\%$ RH with 0.7 m/s airflow for

Storage Temperature

Relative Humidity

Shock Protection

Vibration Protection

UNO-2272G-J2AE - 40 ~ 85°C (-40 ~ 185°F)

10 ~ 95% RH @ 40°C, non-condensing Operating, IEC 60068-2-27, 50G, half sine, 11 ms Operating, IEC 60068-2-64, 2 Grms, random, 5 ~ 500 Hz, 1hr/axis (mSATA)

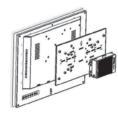
Ingress Protection

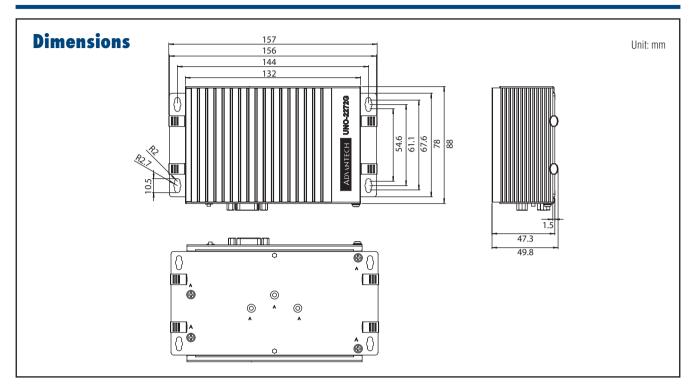
Installation Scenario

DIN-rail Mount Illustration



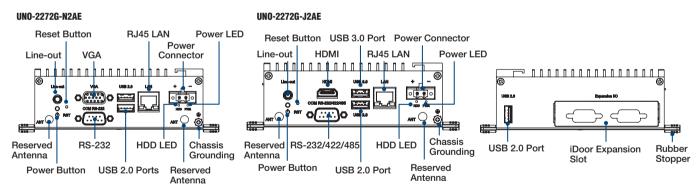
VESA Mount Illustration





Front I/O View

Rear I/O View



Ordering Information

- UNO-2272G-N2AE
- UNO-2272G-J2AF

Intel Atom N2800 1.86GHz, 2GB, 1xLANs, 2xmPCle Intel Celeron J1900 2.0GHz, 2GB, 1xLANs, 2xmPCle

iDoor Modules

- PCM-23U1DG-BE
- PCM-24R2GL-AE PCM-24D2R2-BE
- PCM-24D4R2-BE
- PCM-24S2WF-BE
- PCM-24S33G-AE
- PCM-27D24DI-AE
- Internal locked USB Slot for USB Dongle
 2-Port Gigabit Ethernet, mPCle, RJ45
 2-Port Isolated RS-232 mPCle, DB9
 4-Port Non-Isolated RS-232 mPCle, DB37
 WiFi 802.11 ac/a/b/g/n 2T2R w/Bluetooth 4.1
 Wide-Temp 3.75G HSPA and GPS, Redundant SIM Card holder
- PCM-2300MR-AE MR4A16B, MRAM, 2 MByte, mPCle
 - 24-Channel Isolated Digital I/O w/ counter mPCle, DB37

Optional Accessories

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

Embedded O/S

UNO-2272G-N2AE

- **2070013798**
- **2070013098**

WEC7 MUI V4.00 B044 image WES7P X86 MUI. V4.12 B001 image

WES7P x64MUI v4.18 B008 image

UNO-2272G-J2AE

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