

UNO-2271G

Intel® Atom™ Pocket-Size
Smart Factory Edge Gateway with
2 x GbE, 1 x mPCIe, HDMI, eMMC

NEW



Introduction

Advantech's new generation UNO-2000 series of embedded automation computers are highly ruggedized, fanless, and modular designs. New UNO-2000 series includes pocket, small, and regular-sized form-factors for different kinds of smart factory applications such as Equipment Connectivity (EC), Process Visualization (PV), Environment Management (EM), and Dispatch Management (DM). The modular design of UNO-2271G features optimized I/O and offers three different configurations. It also supports Advantech's iDoor technology via a second expansion stack. UNO-2000 series provide flexible and time-to-market support for a variety of applications.

Specifications

General

- Certification** CE, FCC, UL, CCC, BSMI
- Dimensions (W x D x H)**
 - 100 x 70 x 30 mm (3.9" x 2.8" x 1.2"), UNO-2271G-E21AE
 - 100 x 70 x 65 mm (3.9" x 2.8" x 2.6"), UNO-2271G-E22AE and E23AE
- Form Factor** Pocket Size, same dimension as standard 2.5" SSD/HDD
- Enclosure** Aluminum Housing
- Mounting** Stand, Wall, VESA (Optional), DIN-rail (Optional), Pole (Optional)
- Weight (Net)**
 - 0.5 kg (1.1lbs) for UNO-2271G-E21AE
 - 0.6 kg (1.2lbs) for UNO-2271G-E22AE and E23AE
- Power Requirement** 10 ~ 30V_{DC}
- Power Consumption** 12W (Typical), 24W (Max)
- OS Support** For mSATA storage: Windows7, Windows10 LTSB, Advantech Linux
For eMMC storage: Advantech embedded customized Windows7 64bits, Windows 10 LTSB, Advantech Linux

System Hardware

- BIOS** AMI EFI64 Mbit
- Watchdog Timer** Programmable 255 levels timer interval, from 1 to 255 sec
- Processor** Intel Atom E3815 1.46GHz (E3825 support by project)
- System Chip** Intel Atom SoC integrated
- Memory** Onboard 4GB DDR3L 1066 MHz
- Graphics Engine** Intel® HD Graphics
- Ethernet** Realtek RTL8111E GbE, 802.10av
- LED Indicators** LEDs for Power, HDD, LAN (Active, Status)
- Storage** Onboard 32GB eMMC (Option mSATA shared with mPCIe slot)
- Expansion** 1 x Full-size mPCIe slot

I/O Interfaces

- Serial Ports** 2 x RS 232/422/485 for UNO-2271G-E23AE

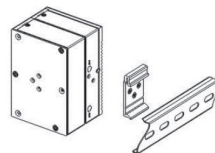
Features

- Intel® Atom™ E3815/E3825 processor with 4GB DDR3L onboard memory
- 2 x GbE, 1 x USB 3.0, 1 x HDMI, option 2 x RS-232/422/485 or 3 x USB2.0
- Compact fanless design
- Rubber stopper design with internal reserved screws for 2nd layer assembly
- 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 30+ iDoor combination with four main categories of smart factory applications
- 32GB eMMC storage onboard

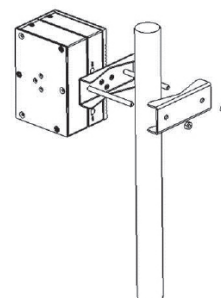
- LAN Ports** 2 x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000BASE-T Fast Ethernet
- USB Ports** 1 x USB 3.0 for UNO-2271G-E21AE/E021AE
3 x USB 2.0 and 1 x USB 3.0 for UNO-2271G-E22AE/E022AE
1 x USB 3.0 for UNO-2271G-E23AE/E023AE
- Displays** 1 x HDMI, supports 1920 x 1080 @ 60Hz
- Power Connector** 1 x 2 Pins, Terminal Block
- Environment**
 - Operating Temperature** 0 ~ 50°C (32 ~ 122°F) @ 5 ~ 85% RH with 0.7 m/s airflow
 - Storage Temperature** -20 ~ 70°C (-4 ~ 158°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** IP30

Installation Scenario

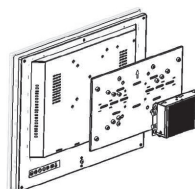
DIN-rail Mount Illustration



Pole Mount Illustration



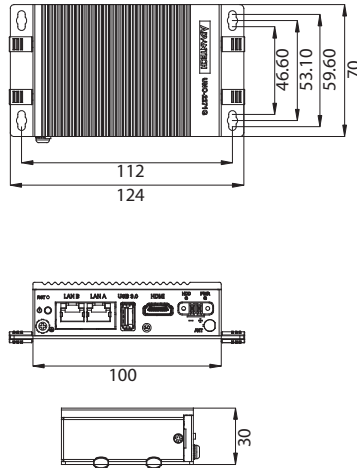
VESA Mount Illustration



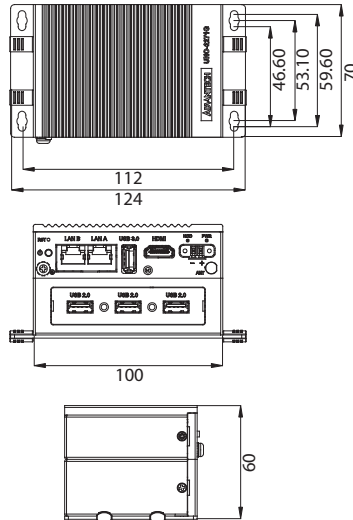
Dimensions

Unit: mm

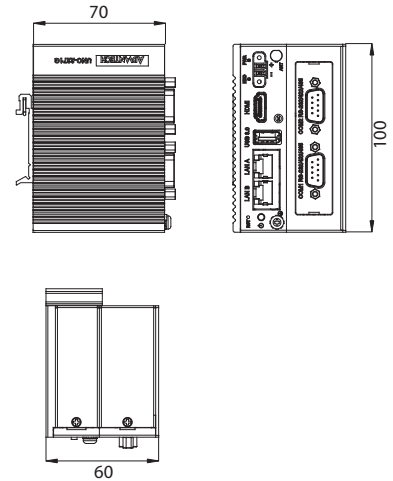
UNO-2271G-E21AE



UNO-2271G-E22AE

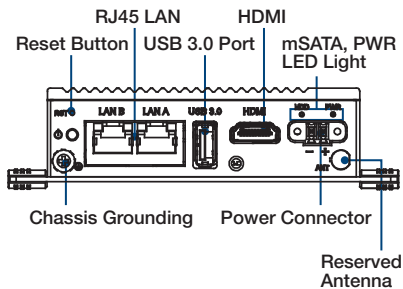


UNO-2271G-E23AE

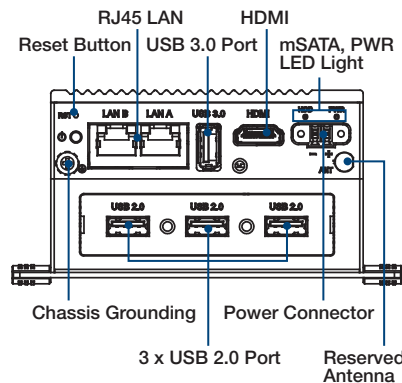


Front I/O View

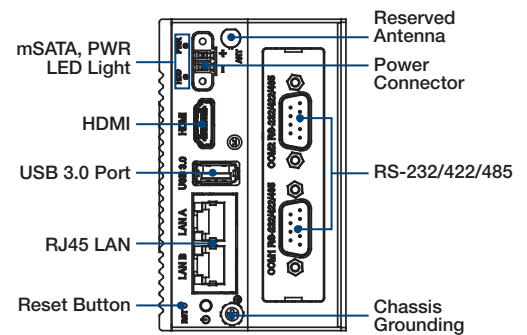
UNO-2271G-E21AE



UNO-2271G-E22AE



UNO-2271G-E23AE



Ordering Information

- UNO-2271G-E21AE** 2271G-Standard, Intel Atom E3815 1.46 GHz, 4GB, 2 x LAN, 1 x mPCIe, 1 x USB3.0
- UNO-2271G-E22AE** 2271G-Universal, Intel Atom E3815 1.46 GHz, 4GB, 2 x LAN, 1 x mPCIe, 1 x USB3.0, 3 x USB2.0
- UNO-2271G-E23AE** 2271G-DIN RAIL, Intel Atom E3815 1.46GHz, 4GB, 2 x LAN, 1 x mPCIe, 1 x USB3.0, 2 x RS-232/422/485
- UNO-2271G-W1032GE** UNO-2271G-E21AE Ready-to-Go Package (Includes Windows 10 LTSB & 60W Adapter)

iDoor Modules

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

Optional Accessories

- PWR-247-CE** 60W AC 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-2271G-EKAE** UNO-2271G Expansion Kit for iDoor
- UNO-2271G-R2AE** UNO-2271G Expansion Kit of 2 COM ports
- UNO-2271G-U3AE** UNO-2271G Expansion Kit of 3 USB2.0 ports
- UNO-2271G-DMKAE** UNO-2271G DIN RAIL Kit
- UNO-2000G-VMKAE** UNO-2000 VESA Mount Kit
- UNO-2000G-PMKAE** UNO-2000 Pole Mount Kit
- UNO-2000-LKAE** Cable lockable kit 10 units/per pack

Embedded O/S

- 2070014803** WIN10 ENT 2016 LTSB V6.01 B014 image
- 2070015327** Advantech Linux (AdvLinuxTu V1.0.3) image
- 20703WE7PS0003** WS7P X64 MUI V4.18 B017 image

Tento produkt můžete zakoupit u společnosti AutoCont IPC a.s.



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Váš dodavatel průmyslových počítačů, komponent a speciálních průmyslových IT systémů.

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ODMĚNA ZA VĚRNOST

Pravidelní zákazníci u nás nakupují za nižší ceny. Výše slevy se odvíjí od realizovaného obrátu.



SERVIS ON-SITE A IN-TIME

K projektovým dodávkám nabízíme rozšířenou podporu a servis s garancí výměny zařízení do 48 hodin.