UNO-2271G

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



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







second expansion stack. UNO-2000 series provide flexible and time-to-market support for a variety of applications.



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

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-E21BE/E021AE

100 x 70 x 65 mm (3.9" x 2.8" x 2.6"), UNO-2271G-E22BE/E23BE/E022AE/E023AE

Form Factor Pocket Size, same dimension as standard 2.5" SSD/

Enclosure Aluminum Housing

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

0.5 kg (1.1lbs) for UNO-2271G-E21BE/E021AE Weight (Net) 0.6 $k\bar{g}$ (1.2lbs) for UNO-2271G-E22BE/ E022AE and

E23BE/ E023BE

 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 Windows 7 64bits, Windows 10 LTSB, Advantech Linux

System Hardware

AMI EFI64 Mbit

Watchdog Timer Programmable 255 levels timer interval, from 1 to 255

Intel Atom E3815 Single Core 1.46GHz Processor Intel Atom E3825 Dual Core 1.33Ghz

System Chip Intel Atom SoC integrated Memory Onboard 4GB DDR3L 1066 MHz **Graphics Engine** Intel® HD Graphics

Realtek RTL8111E GbE, 802.10av Ethernet **LED Indicators** LEDs for Power, HDD, LAN (Active, Status)

Onboard 32GB eMMC (Option mSATA shared with Storage

mPCle slot) 1 x Full-size mPCle slot Expansion

I/O Interfaces

AD\ANTECH |

 Serial Ports 2 x RS 232/422/485 for UNO-2271G-E23BE/ E023AE 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-E21BE/E021AE 3 x USB 2.0 and 1 x USB 3.0 for UNO-2271G-E22BE/

1 x USB 3.0 for UNO-2271G-E23BE/E023AE 1 x HDMI, supports 1920 x 1080 @ 60Hz

Displays **Power Connector** 1 x 2 Pins, Terminal Block

Environment

• Operating Temperature $0 \sim 50^{\circ}\text{C} (32 \sim 122^{\circ}\text{F}) @ 5 \sim 85\% \text{ RH with } 0.7 \text{ m/s}$

- 20 ~ 70°C (-4 ~ 158°F)

Storage Temperature

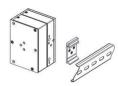
10 ~ 95% RH @ 40°C, non-condensing **Relative Humidity Shock Protection Vibration Protection**

Operating, IEC 60068-2-27, 50G, half sine, 11 ms Operating, IEC 60068-2-64, 2 Grms, random, 5 ~ 500 Hz, 1hr/axis (mSATA)

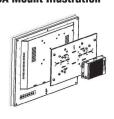
Ingress Protection

Installation Scenario

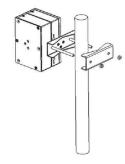
DIN-rail Mount Illustration

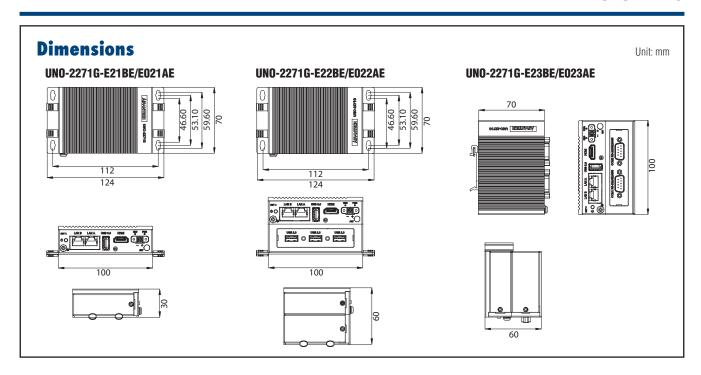


VESA Mount Illustration



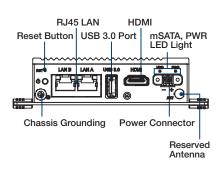
Pole Mount Illustration



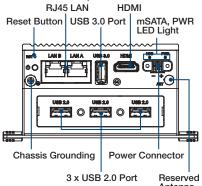


Front I/O View

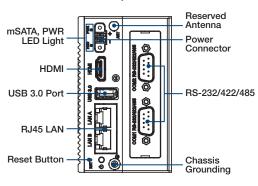
UNO-2271G-E21BE/E021AE



UNO-2271G-E22BE/E022AE



UNO-2271G-E23BE/E023AE



Ordering Information

	CPU	Ordering Part Number	USB2.0	RS-232/422/485	LAN	USB3.0	HDMI	mPCle
Single Stack	Single Core E3815	UNO-2271G-E21BE	Х	Х	2	1	1	1
Double Stack		UNO-2271G-E22BE	3	Х				
		UNO-2271G-E23BE	х	2				
Single Stack	Dual Core E3825	UNO-2271G-E021AE		х				
Double Stack		UNO-2271G-E022AE	3	Х				
		UNO-2271G-F023AF	χ	2				

iDoor Modules

PCM-23U1DG-BF Internal locked USB Slot for USB Dongle

PCM-24R2GL-AE 2-Port Gigabit Ethernet, mPCle, RJ45

PCM-24S33G-AF 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 PCM-27D24DI-AF

Embedded O/S

Advantech Linux (AdvLinuxTu V1.0.3) image for UNO-2271G-ExxBE/ E0xxAE 20703WE7PS0018 WS7P X64 MUI V4.19 B006 image

20703W6E0S0002 WIN10 LTSB v6.03 B010 image

Optional Accessories Adapters & Power cords

PWR-247-CE 60W AC to DC UNO series

power adapter

Power Cable US Plug 1.8 M Power Cable EU Plug 1.8 M 1702002600 1702002605

Power Cable UK Plug 1.8 M Power Cable China/ Australia Plug 1.8 M 1702031801 1700000596

Expansion Kits

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

Mounting Kits

■ UNO-2271G-DMKAE UNO-2271G DIN RAIL

Mount Kit

UNO-2000G-VMKAE UNO-2000 VESA Mount Kit
UNO-2000G-PMKAE UNO-2000 Pole Mount Kit

Others

UNO-2000-LKAE

Cable lockable kit 10 units/ per pack

Wi-Fi module & antenna

■ EWM-W157H01E

1750006043 1750008717-01

Wifi 802.11 a/b/g/n/ac, w/ Bluetooth 4.0 Coaxial cable for antenna Antenna L=10.9 cm 50 0hm