

UNO-2271G

Intel® Atom™ Pocket-Size
Automation Computer with 2 x GbE,
1 x mPCIe, HDMI, eMMC

NEW



SUSI Access iDoor



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)** 100 x 70 x 30 (3.9" x 2.8" x 1.2"), UNO-2271G-E21AE
100 x 70 x 65 (3.9" x 2.8" x 2.6"), UNO-2271G-E22AE and E23AE
- **Form Factor** Pocket Size
- **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), 20W (Max)
- **OS Support** Microsoft® Windows 7, WES7, Windows 10, Advantech Linux

System Hardware

- **BIOS** AMI EFI64 Mbit
- **Watchdog Timer** Programmable 256 levels timer interval, from 1 to 255 sec
- **Processor** Intel Atom Single Core E3815 1.46GHz
- **System Chip** Intel Atom SoC integrated
- **Memory** Onboard 4GB DDR3L 1066 MHz
- **Graphics Engine** Intel® HD Graphics
- **Ethernet** Realtek RTL8111E GbE, 802.10av, IEEE1588/802.1AS, 803.3az
- **LED Indicators** LEDs for Power, HDD, LAN (Active, Status)
- **Storage** Onboard 32G eMMC (Option mSATA)
- **Expansion** 1 x Full-size mPCIe slot

I/O Interfaces

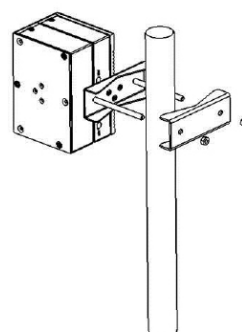
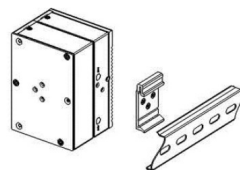
- **Serial Ports** 2 x RS 232/422/485 by extension mini card for UNO-2271G-E22AE/UNO-2271G-E23AE
- **LAN Ports** 2 x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000Base-T Fast Ethernet

Features

- Intel® Atom™ E3815 Processor up to 1.46 GHz 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 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
- Built-in 32G eMMC storage
- Selectable I/O support for standard models

- **USB Ports** 1 x USB 3.0 for UNO-2271G-E21AE
3 x USB 2.0 and 1 x USB 3.0 for UNO-2271G-E22AE and UNO-2271G-E23E by extension USB card support (Option COM port x 2)
 - **Displays** 1 x HDMI, supports 1920 x 1080 @ 60Hz
 - **Power Connector** 1 x 2 Pins, Terminal Block
 - **Grounding Protection** Chassis Grounding
- ### 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** IP40

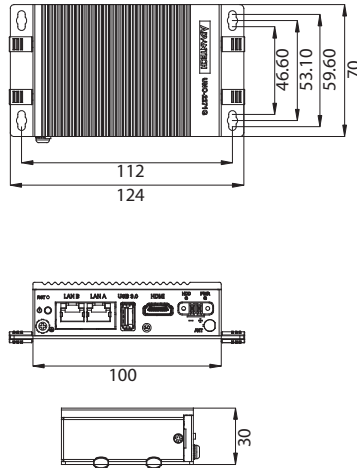
Installation Scenario



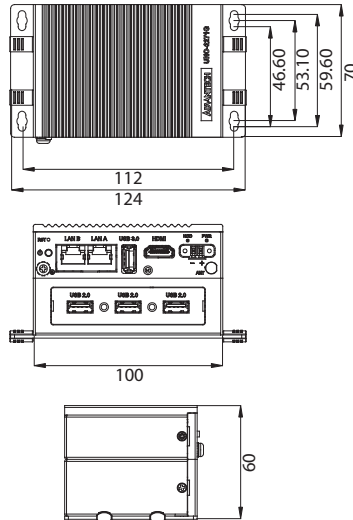
Dimensions

Unit: mm

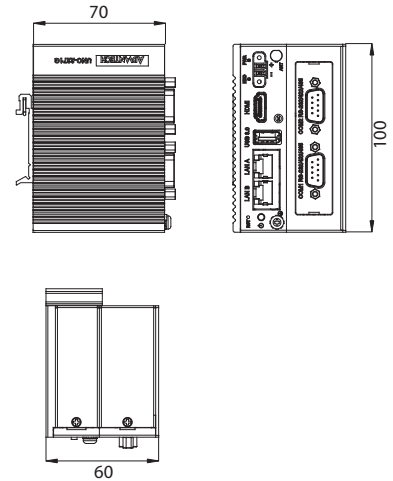
UNO-2271G-E21AE



UNO-2271G-E22AE

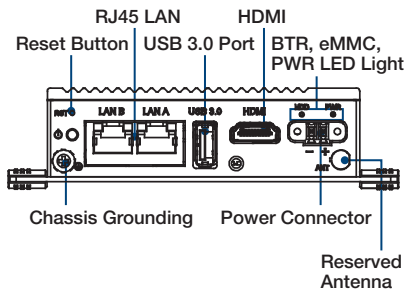


UNO-2271G-E23AE

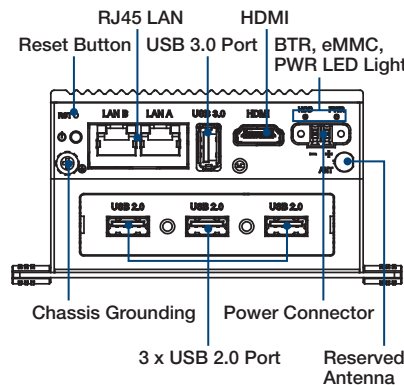


Front I/O View

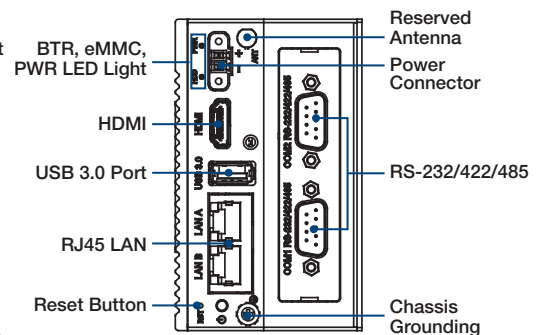
UNO-2271G-E21AE



UNO-2271G-E22AE



UNO-2271G-E23AE



Ordering Information

- UNO-2271G-E21AE Intel Atom E3815 1.46 GHz, 4GB, 2 x LAN, 1 x mPCIe, 1 x USB3.0
- UNO-2271G-E22AE Intel Atom E3815 1.46 GHz, 4GB, 2 x LAN, 1 x mPCIe, 1 x USB3.0, 3 x USB2.0
- UNO-2271G-E23AE Intel Atom E3815 1.46GHz, 4GB, 2 x LAN, 1 x mPCIe, 1 x USB3.0, 2 x RS-232/422/485

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-AE 1-Port Hilscher netX100 FieldBus mPCIe, PROFIBUS, DB9, Master
- PCM-26D1DB-AE 1-Port Hilscher netX100 FieldBus mPCIe, PROFIBUS, DB9, Slave
- PCM-26R2PN-AE 2-Port Hilscher netX100 FieldBus mPCIe, PROFINET, RJ45, Master
- PCM-26R2PN-AE 2-Port Hilscher netX100 FieldBus mPCIe, PROFINET, RJ45, Slave

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)
- 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 O/S

- 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