UNO-2272G

Intel® Atom™ Palm-Size Automation Computer with 1 x GbE, 2 x mPCle, VGA



Features

- Latest Intel® Atom™ Processors up to 1.86GHz with 2GB DDR3L Memory
- 1 x GbE, 3 x USB 2.0, 1 x RS-232, 1 x VGA, Audio
- Comprehensive Palm, Small, Regular-size form-factor
- Compact with Fanless Design
- Rubber Stopper Design with Captive Screw
- Dual HDD/SSD support with RAID 0/1 in regular-size
- Diverse system IO and Isolated Digital IO by iDoor Technology
- Supports Fieldbus Protocol by iDoor Technology
- 3G/GPS/GPRS/WiFi Communication by iDoor Technology
- Supports Battery-backup MRAM by iDoor Technology
- Chassis Grounding Protection









Introduction

Advantech's UNO-2000 series of Embedded Automation Computers are Fanless with highly ruggedised with an embedded operating system (Windows CE, Windows XPE, 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 50mm (6.2"x 3.5"x 2.0")

Form Factor Palm Size Enclosure Aluminum Housing Stand, Wall, VESA (Optional) Mounting

Weight (Net) 0.8 kg (1.76lbs) **Power Requirement** $24V_{DC} \pm 20\%$ **Power Consumption** 8W (Typical), 12W (Max)

Microsoft® Windows 7/8, WES7/WES8, Linux Fedora **OS Support**

System Hardware

BIOS AMI EFI64 Mbit

 Watchdog Timer Programmable 256 levels timer interval, from 1 to 255

Processor Intel Atom Dual Core N2800 1.86GHz System Chip Intel Atom SoC integrated On-board 2GB DDR3 1333 MHz Memory Intel® HD Graphics **Graphics Engine**

Ethernet Intel® 82583V GbE, 802.1Qav, IEEE1588/802.1AS,

802.3az

 LED Indicators LEDs for Power, LAN(Active, Status)

Storage

1 x Full-size mPCle slot, 1 x Half-size mPCle slot, Expansion mPCle 2.0 (supports SIM card on Full-size mPCle slot)

I/O Interfaces

Serial Ports 1 x RS-232, DB9, 50~115.2kbps

LAN Ports 1 x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000Base-T

Fast Ethernet 3 x USB 2.0 Ports

USB Ports 1 x VGA, supports 1920x1200@60Hz 24bpp **Displays**

Line-Out Audio

Power Connector 1 x 2 Pins, Terminal Block **Grounding Protection** Chassis Grounding

Environment

■ **Operating Temperature** - 20 ~ 60°C (-4 ~ 140°F) @ 5 ~ 85% RH with 0.7m/s airflow

Storage Temperature

- 40 ~ 85°C (-40 ~ 185°F)

Relative Humidity Shock Protection Vibration Protection 10 ~ 95% RH @ 40°C, non-condensing Operating, IEC 60068-2-27, 50G, half sine, 11ms Operating, IEC 60068-2-64, 2Grms, random,

5 ~ 500Hz, 1hr/axis (mSATA)

Ingress Protection

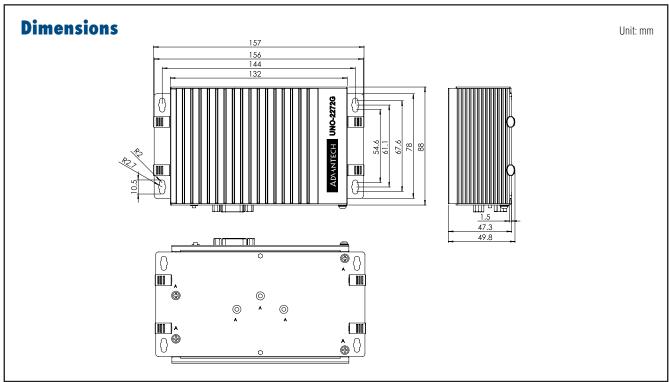
Application Software

Application software	
susiÂccess	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.
	Version : V7.1 or above
WebAcc ss	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	Version: V2.0.3.8 or above Panel Express, a windows based HMI mini SCADA, realizes the cross platform flexibility offered by WebDP 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	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

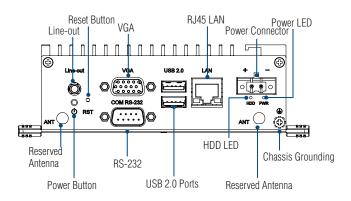
and sub-second screen switching.

minimum system overhead, high communication data rates,

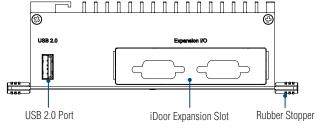




Front IO View



Rear IO View



Ordering Information

UNO-2272G-N2AE
 Intel Atom N2800 1.86GHz, 2GB, 1xLANs, 2xmPCle

iDoor Modules

■ PCM-2300MR-AE MR4A16B, 2MByte

• PCM-26D1PB-AE Hilscher netX100 FieldBus, ProfiBus, DB9 x 1

■ PCM-26D2CA-AE SJA1000 CANBus, CANOpen, DB9 x 1

■ PCM-24D2R4-AE OXPCIe-952 UART, Isolated RS-422/485,

DB9 x 2

• PCM-24D2R2-AE OXPCIe-952 UART, Isolated RS-232, DB9 x 2

 PCM-24D4R4-AE
 OXPCIe-954 UART, Non-Isolated RS-422/485, DB37 x 1

 PCM-24D4R2-AE OXPCIe-954, UART, Non-Isolated RS-232, DB37 x 1

PCM-27D24DI-AE
 Digital I/O, 16DI / 8DO, DB37 x 1

Accessories

• **1757002321** 63W, AC-DC, 100-240V, 24VDC 2.62A Power Supply

1702002600 Power Cable US Plug 1.8 M
 1702002605 Power Cable EU Plug 1.8 M
 1702031801 Power Cable UK Plug 1.8 M

■ **1700000596** Power Cable China/Australia Plug 1.8 M

Embedded OS & Automation Software

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