UNO-2272G

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

Features

- Latest Intel® Atom™ Processors up to 1.86 GHz with 2GB DDR3 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/Wi-Fi Communication by iDoor Technology
- Supports MRAM by iDoor Technology
- Chassis Grounding Protection

Introduction

Advantech's UNO-2000 series of Embedded Automation Computers are Fanless with highly ruggedized 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
- **Mounting** Stand, Wall, VESA (Optional)
- **Weight (Net)** 0.8 kg (1.76lbs)
- **Power Requirement** $24V_{DC} \pm 20\%$
- **Power Consumption** 8W (Typical), 12W (Max)
- **OS Support** Microsoft® Windows 7, WES7, Linux Fedora

System Hardware

- **BIOS** AMI EFI64 Mbit
- **Watchdog Timer** Programmable 256 levels timer interval, from 1 to 255 sec
- **Processor** Intel Atom Dual Core N2800 1.86GHz
- **System Chip** Intel Atom SoC integrated
- **Memory** Built-in 2GB DDR3 1600 MHz
- **Graphics Engine** Intel® HD Graphics
- **Ethernet** Intel® 82583V GbE, 802.1Qav, IEEE1588/802.1AS, 802.3az
- **LED Indicators** LEDs for Power, LAN(Active,Status)
- **Storage** 1 x mSATA
- **Expansion** 1 x Full-size mPCIe slot, 1 x Half-size mPCIe slot, mPCIe 2.0 (supports SIM card on Full-size mPCIe 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
- **USB Ports** 3 x USB 2.0 Ports
- **Displays** 1 x VGA, supports 1920x1200@60Hz 24bpp
- **Audio** Line-Out
- **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** 10 ~ 95% RH @ 40°C, non-condensing
- **Shock Protection** Operating, IEC 60068-2-27, 50G, half sine, 11ms
- **Vibration Protection** Operating, IEC 60068-2-64, 2Grms, random, 5 ~ 500Hz, 1hr/axis (mSATA)
- **Ingress Protection** IP40

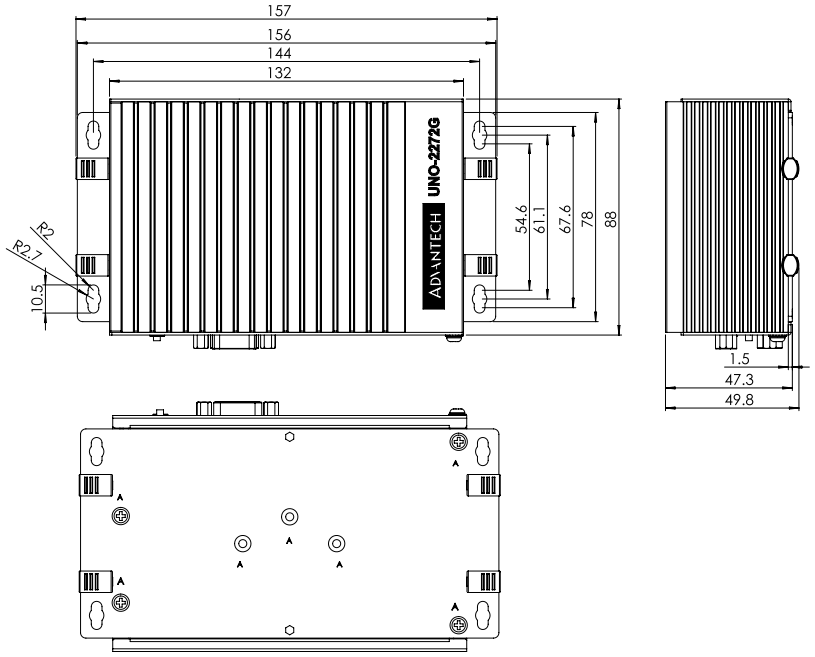
Application Software

SUSIAccess	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.
WebAccess	Version : V7.1 or above 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.
PanelExpress	Version : V2.0.3.8 or above Panel Express, a windows based HMI mini SCADA, realizes the cross platform flexibility offered by WebOP 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 Designer	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 minimum system overhead, high communication data rates, and sub-second screen switching.

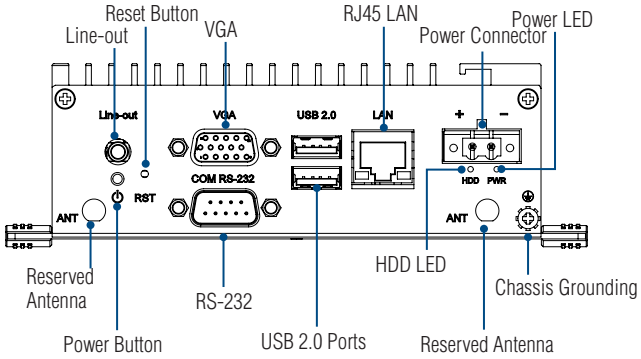
All product specifications are subject to change without notice
Date updated: 3-Oct-2014

Dimensions

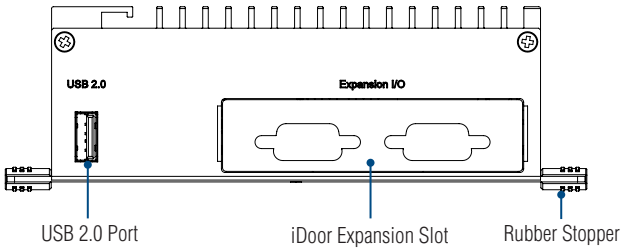
Unit: mm



Front IO View



Rear IO View



Ordering Information

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

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
- **PCM-24R1TP** Intel 82574L, GbE, IEEE 1588 PTP, RJ45 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