

# PE-UNO2272-CT1400A

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

**NEW**



**iDoor susiAccess**

**RoHS**  
COMPLIANT  
2002/95/EC



## 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.

The built-in Microsoft WES 7 Pro 64-bitOS platform which bundles Panel Express lets the UNO-2272G become a control HMI solution for flexible system integration.

## 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** 24Vdc  $\pm$  20%
- Power Consumption** 10W (Typical), 15W (Max)
- OS Support** Microsoft WES 7 Pro 64-bit

### 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  
Intel Atom Quad Core J1900 2GHz
- System Chip** Intel Atom SoC integrated
- Memory** Built-in 2GB DDR3 1600 MHz for UNO-2272G-N2AE  
Built-in 2GB DDR3L 1333 MHz for UNO-2272G-J2AE
- 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** CFast 32Gb by iDoor x 1, mSATA x 1(optional)
- Expansion** 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 for UNO-2272G-N2AE  
1 x HDMI, support 1920 x 1080@60Hz for UNO-2272G-J2AE
- Audio** Line-Out
- Power Connector** 1 x 2 Pins, Terminal Block
- Grounding Protection** Chassis Grounding

## Features

- Intel® Atom™ N2800/J1900 Processors up to 2.41 GHz with 2GB DDR3/DDR3L Memory
- 1 x GbE, 3 x USB 2.0, 1 x RS-232, 1 x VGA or HDMI, Audio
- Comprehensive Palm, Small, Regular-size form-factor
- Compact with Fanless Design
- Rubber Stopper Design with Captive Screw
- Diverse system I/O and Isolated Digital I/O by iDoor Technology
- Supports MRAM by iDoor Technology
- Chassis Grounding Protection
- Embedded Microsoft WES 7 Pro 64-bit OS
- Bundle Panel Express HMI Runtime software(1400tags)
- CFast 32Gb by iDoor Technology

### Environment

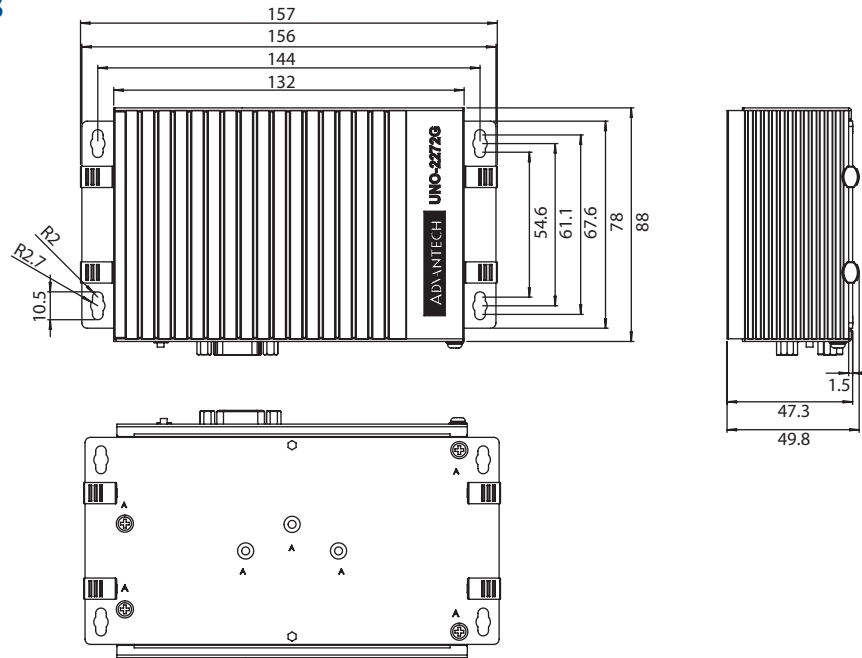
- Operating Temperature** -20 ~ 60°C (-4 ~ 140°F) @ 5 ~ 85% RH with 0.7m/s airflow for UNO-2272G-N2AE  
0 ~ 50°C (32 ~ 122°F) @ 5 ~ 85% RH with 0.7m/s airflow for UNO-2272G-J2AE
- Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- Relative Humidity** 10 ~ 95% RH @ 40°C, non-condensing
- Shock Protection** 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

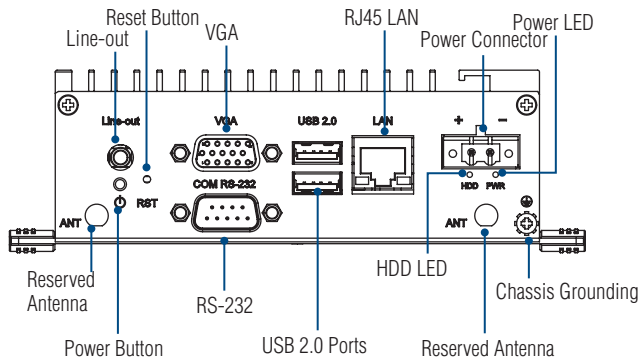
<b>SUSIACCESS</b>	Version : V2.1 or above An innovative remote device management software, allowing efficient remote monitoring, quick recovery & backup, and real-time remote configuration, to create a more intelligent and interconnected embedded computing solution.
<b>PANEL EXPRESS</b> <small>Designed for Convenience</small>	Version: V2.0 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.
<b>WebOP Designer</b>	Version: V2.0 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.

## Dimensions

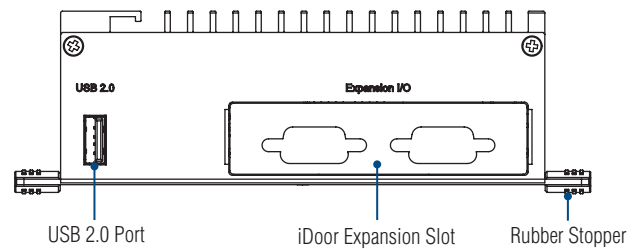
Unit: mm



## Front I/O View



## Rear I/O View



## Ordering Information

- **PE-UN02272-CT1400A** Intel Atom, 2GB DDR3, CFast 32Gb, PCM-23C1CF-AE, WES 7 Pro 64-bit, Panel Express HMI Runtime 1400tags

## Embedded OS & Automation Software

- **968WEXP050X** PanelExpress V2.0 5000 tags S/W license
- **968WEXP2USB** PanelExpress V2.0 S/W USB dongle

## Accessories

- **1757002321** 63WC to DC UNO series power adapter (Industrial Grade)
- **PWR-249-AE** 65W AC to DC power adapter (Commercial 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)