PE-UNO2473-CT1400A

Intel® Atom™ Regular-Size Automation Computer w/ 4 x GbE, 3 x mPCIe, HDMI/VGA

NEW

Features

- 4th Generation Intel® Atom™ Processor up to 1.91GHz with 4GB DDR3L Memory
- 4 x GbE, 4 x USB 2.0/3.0, 2 x RS-232, 2 x RS-422/485, 1 x VGA, 1 x HDMI, Audio
- Comprehensive Palm, Small, Regular-size form-factor
- Compact with Fanless Design
- Rubber Stopper Design with Captive Screw
- Chassis Grounding Protection
- LAN Redundancy (Teaming)
- Fault-Protected RS-485 Transceivers With Extended Common-Mode Range
- Embedded Microsoft WES 7 Pro 64-bit OS
- Bundle Panel Express HMI Runtime software(1400tags)
- CFast 32Gb by iDoor Technology

iDoor SUSIAccess RoHS COMPLIANT 2002/95/EC CCC CE FCC c UL us LISTED E190881 I.T.E.

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.

The built-in Microsoft WES 7 Pro 64-bitOS platform which bundles Panel Express lets the UNO-2473G become a control HMI solution for flexible system integration.

Specifications

General

- **Certification** — CE, FCC, UL, CCC, BSMI
- **Dimensions (W x D x H)** — 252 x 149 x 62 mm (9.9" x 5.9" x 2.4")
- **Form Factor** — Regular Size
- **Enclosure** — Aluminum Housing
- **Mounting** — Stand, Wall, VESA (Optional), Din-rail (Optional)
- **Weight (Net)** — 1.6kg (3.5lbs)
- **Power Requirement** — 24V_{DC} ± 20%
- **Power Consumption** — 28W (Typical), 48W (Max)
- **OS Support** — Microsoft WES 7 Pro 64-bit

System Hardware

- **BIOS** — AMI UEFI 128Mbit Flash BIOS
- **Watchdog Timer** — Programmable 256 levels timer interval, from 1 to 255 sec
- **Processor** — Intel® Atom™ Processor E3845 1.91 GHz Quad Core, 2MB L2
- **System Chip** — Intel Atom SoC integrated
- **Memory** — On-board 4GB DDR3L 1600 MHz
- **Graphics Engine** — Intel® HD Graphics: Gen7 with 4EU
- **Ethernet** — Intel® i210-IT GbE, 802.1Qav, IEEE1588/802.1AS, 802.3az
- **LED Indicators** — LEDs for Power, battery, LAN (Active, Status), Tx/Rx and HDD
- **Storage** — CFast 32Gb by iDoor x 1
- **Expansion** — 3 x Full-size mPCIe slot, mPCIe 2.0

I/O Interfaces

- **Serial Ports** — 2 x RS-232, DB9, 50~115.2kbps
  2 x RS-422/485, DB9, auto flow control, 50~115.2kbps
- **LAN Ports** — 4 x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000Base-T Fast Ethernet
- **USB Ports** — 4 x USB Ports (3 x USB2.0, 1 x USB3.0 compliant)
- **Displays** — 1 x VGA (2560x1600)
  1 x HDMI (1920x1200)
- **Audio** — Line-In, Line-Out
- **Power Connector** — 1 x 3 Pins, Terminal Block
- **Grounding Protection** — Chassis Grounding
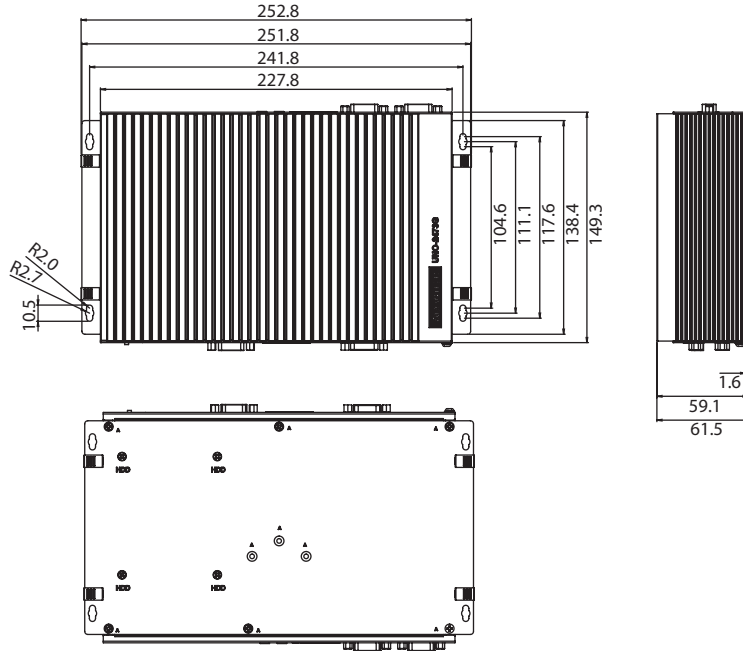
Environment

- **Operating Temperature** — UNO-2473G-E3AE: - 20 ~ 60°C (-4 ~ 140°F) @ 5 ~ 85% RH with 0.7m/s airflow
  UNO-2473XXXXX: - 40 ~ 60°C (-40 ~ 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)
  Operating, IEC 60068-2-64, 0.7Grms, random, 5 ~ 500Hz, 1hr/axis (HDD)
- **Ingress Protection** — IP40

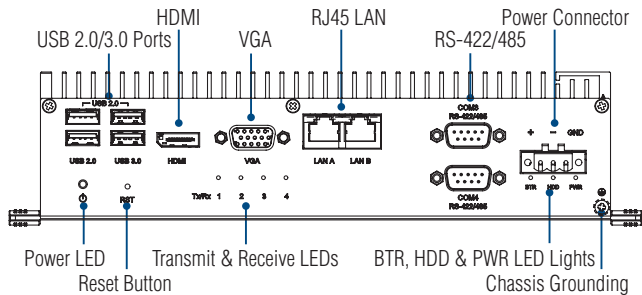## Application Software

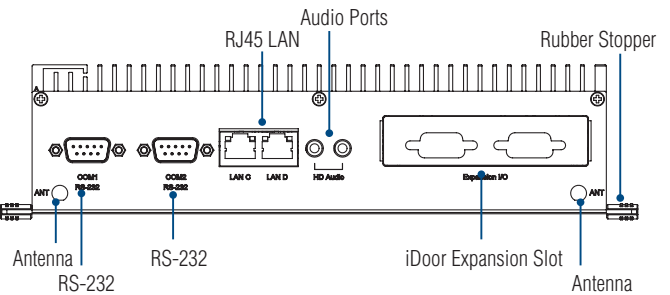|	
SUSIAccess	Version : V2.1 or above An innovative remote device management software, allowing efficient remote monitoring, quick recovery & backup, and real-time remote configuration, to create a more intelligent and interconnected embedded computing solution.
PANELEXPRESS Designed for Convenience	Version : V2.0or 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 : V2.0or 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

Last updated : 15-Apr-2015

Dimensions

Unit: mm

Front I/O View

USB 2.0/3.0 Ports
HDMI
VGA
RJ45 LAN
RS-422/485
Power Connector

Power LED
Reset Button
Transmit & Receive LEDs
BTR, HDD & PWR LED Lights
Chassis Grounding

Rear I/O View

RJ45 LAN
Audio Ports
Rubber Stopper

Antenna
RS-232
RS-232
iDoor Expansion Slot
Antenna

Ordering Information

- **PE-UNO2473-CT1400A** Intel Atom, CFast 32G, PCM-23C1CF-AE, WES 7 Pro 64-bit, Panel Express HMI Runtime 1400 tags

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)

Embedded OS & Automation Software

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