

# UNO-2483G

## Intel® Core™ i7/i3/Celeron Regular-Size Automation Computer w/ 4 x GbE, 3 x mPCIe, HDMI/VGA

NEW



iDoor susiAccess

RoHS  
COMPLIANT  
2002/95/EC

CCC

CE

FCC

UL  
LISTED  
E100001  
LTE

## Introduction

Advantech's UNO-2000 series of Embedded Automation Computers are Fanless with highly ruggedised with an embedded operating system (Windows CE, Windows Embedded 7/8, 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)** 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)
- Weight (Net)** 1.6kg (3.5lbs)
- Power Requirement** 24V<sub>DC</sub> ± 20%
- Power Consumption** 28W (Typical), 72W (Max)
- OS Support** Microsoft® Windows 7/8

### System Hardware

- BIOS** AMI UEFI 128Mbit Flash BIOS
- Watchdog Timer** Programmable 256 levels timer interval, from 1 to 255 sec
- Processor** 4th Gen Intel® Core™ i7-4650U ULT 1.7 GHz Dual Core, 4MB L2  
4th Gen Intel® Core™ i3-4010U ULT 1.7 GHz Dual Core, 3MB L2  
4th Gen Intel® Celeron™ 2980U ULT 1.6 GHz Dual Core, 2MB L2  
Integrated Intel 8 Series Chipset
- System Chip** On-board 4GB DDR3L 1600 MHz for UNO-2483G-4C3AE
- Memory** On-board 8GB DDR3L 1600 MHz for UNO-2483G-434AE and UNO-2483G-474AE
- Graphics Engine** Intel® HD Graphics 5000/4400
- Ethernet** Intel® i210-IT GbE, 802.1Qav, IEEE1588/802.1AS, 802.3az  
Intel® i218-LM GbE, Intel® AMT, IEEE1588/802.1AS, 802.3az
- LED Indicators** LEDs for Power, battery, LAN (Active, Status), Tx/Rx and HDD
- Storage** One mSATA  
Two drive bays for SATA 2.5" HDD (Compatible with 9.5mm height HDD)  
CFast drive by iDoor Technology (Optional)
- Expansion** 2 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 (2 x USB 2.0, 2 x USB 3.0 compliant)
- Displays** 1 x VGA, supports 1920 x 1200 @ 60Hz 24bpp  
1 x HDMI 1.4a, supports 3200 x 2000 @ 60Hz 24bpp
- Audio** Line-In, Line-Out
- Power Connector** 1 x 3 Pins, Terminal Block

## Features

- 4th Generation Intel® Core™ i7/i3/Celeron Processors up to 1.9GHz with 4GB/8GB 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
- Dual HDD/SSD support with RAID 0/1 in regular-size
- Diverse system I/O and Isolated Digital I/O by iDoor Technology
- 3G/GPS/GPRS/Wi-Fi Communication by iDoor Technology
- Supports MRAM by iDoor Technology
- Chassis Grounding Protection
- LAN Redundancy (Teaming)
- Fault-Protected RS-485 Transceivers With Extended Common-Mode Range

### Environment

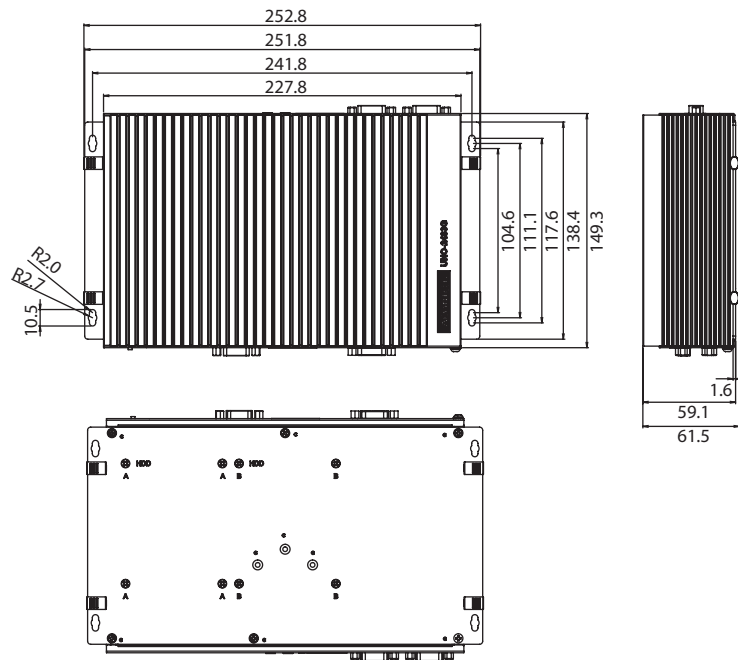
- Operating Temperature** - 20 ~ 60°C (-4 ~ 140°F) @ 5 ~ 85% RH with 0.7m/s airflow
- Storage Temperature** - 40 ~ 85°C (-40 ~ 185°F)
- Relative Humidity** 10 ~ 95% RH @ 40°C, non-condensing
- Shock Protection** Operating, IEC 60068-2-27, 50G, half sine, 11ms
- Vibration Protection** Operating, IEC 60068-2-64, 2Grms, random, 5 ~ 500Hz, 1hr/axis (mSATA)  
Operating, IEC 60068-2-64, 0.7Grms, random, 5 ~ 500Hz, 1hr/axis (HDD)
- Ingress Protection** IP40

## Application Software

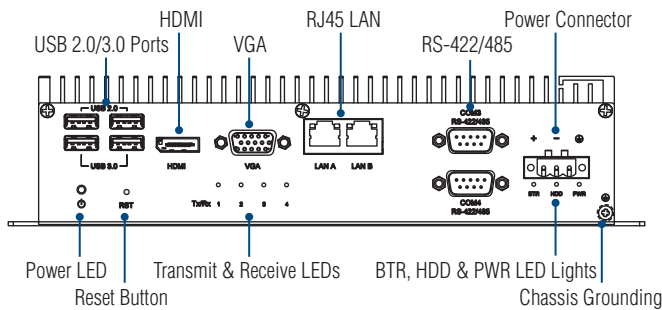
|                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>susiAccess</b>                                               | Version : V2.1 or above<br>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>WebAccess</b>                                                | Version : V7.1 or above<br>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. |
| <b>PANEL EXPRESS</b><br><small>Designed For Convenience</small> | Version : V2.0.3.8 or above<br>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 : V2.0.3.8 or above<br>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

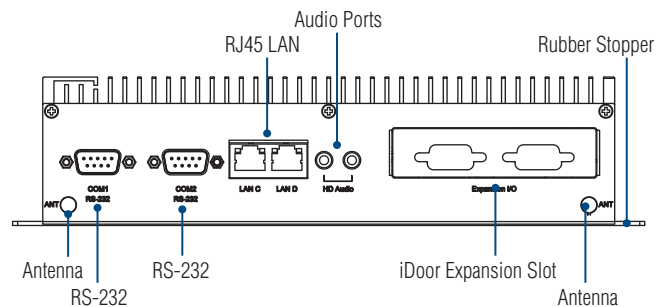
Unit: mm



## Front I/O View



## Rear I/O View



## Ordering Information

- **UNO-2483G-4C3AE** Intel® Celeron 2980U ULT 1.6GHz, 4GB, 4 x LANs, 2 x mPCIe
- **UNO-2483G-434AE** Intel® Core™ i3-4010U ULT 1.7GHz, 8GB, 4 x LANs, 2 x mPCIe
- **UNO-2483G-474AE** Intel® Core™ i7-4650U ULT 1.7GHz, 8GB, 4 x LANs, 2 x mPCIe

## iDoor Modules

- **PCM-24D4R2-AE** 4-Port Non-Isolated RS-232 mPCIe, DB37
- **PCM-24D4R4-AE** 4-Port Non-Isolated RS-422/485 mPCIe, DB37
- **PCM-26D2CA-AE** 2-Port Isolated CANBus mPCIe, CANOpen, DB9
- **PCM-27D24DI-AE** 24-Channel Isolated Digital I/O w/ counter mPCIe, DB37
- **PCM-24R1TP-AE** 1-Port Gigabit Ethernet, Intel® 82574L, mPCIe, RJ45
- **PCM-2300MR-AE** MR4A16B, mRAM, 2 MByte, mPCIe
- **PCM-24R2GL-AE** 2-Port Gigabit Ethernet, mPCIe, RJ45
- **PCM-24R2PE-AE** 2-Port Gigabit Ethernet, IEEE 802.3af (PoE) Compliant, mPCIe, RJ45
- **PCM-24S2WF-AE** WiFi 802.11 a/b/g/n 2T2R w/ Bluetooth 4.0, Half-size mPCIe, 2-port SMA
- **PCM-24S23G-AE** Wide-Temp 3.75G HSPA and GPS, 2-in-1, Full-size mPCIe w/ Redundant SIM Card holder, 2-port SMA

## Accessories

- **1757002321** 63WC to DC UNO series power adapter (Industrial Grade)
- **PWR-249-AE** 65W AC to DC power adapter (Commercial Grade)
- **PWR-244-AE** 96W 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

- **2070012443** Image WES7P MUI. V4.12 B001 for UNO-2483G
- **2070012949** Image WES7P X64 MUI. V4.12 B002 for UNO-2483G
- **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