UNO-2483G

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



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,
- 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











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

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")
Regular Size

Aluminum Housing Enclosure

Stand, Wall, VESA (Optional) Mounting 1.6kg (3.5lbs) Weight (Net)

Power Requirement 24V_{DC} ± 20%

28W (Typical), 72W (Max) Microsoft® Windows 7/8 **Power Consumption OS Support**

System Hardware

BIOS

Watchdog Timer

Processor

System Chip Memory

Graphics Engine

LED Indicators

Storage

Expansion

AMI UEFI 128Mbit Flash BIOS

Programmable 256 levels timer interval, from 1 to 255 sec 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

On-board 4GB DDR3L 1600 MHz for UNO-2483G-4C3AE On-board 8GB DDR3L 1600 MHz for UNO-2483G-434AE and UNO-2483G-474AF

Intel® HD Graphics 5000/4400

Intel® i210-IT GbE, 802.1Qav, IEEE1588/802.1AS, 802.3az Intel® i218-LM GbE, Intel® AMT, IEEE1588/802.1AS, 802.3az LEDs for Power, battery, LAN (Active, Status), Tx/Rx and HDD

One mSATA

Two drive bays for SATA 2.5" HDD (Compatible with 9.5mm height HDD)

CFast drive by iDoor Technology (Optional) 2 x Full-size mPCle slot, mPCle 2.0

I/O Interfaces

Serial Ports

USB 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

Displays

4 x USB Ports (2 x USB 2.0, 2 x USB 3.0 compliant) 1 x VGA, supports 1920 x 1200 @ 60Hz 24bpp 1 x HDMI 1.4a, supports 3200 x 2000 @ 60Hz 24bpp Line-In, Line-Out 1 x 3 Pins, Terminal Block

Power Connector

Environment

Operating Temperature

Storage Temperature

Relative Humidity **Shock Protection**

Vibration Protection

 $-20 \sim 60^{\circ}$ C (-4 ~ 140°F) @ 5 ~ 85% RH with 0.7m/s airflow

- 40 ~ 85°C (-40 ~ 185°F)

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) Operating, IEC 60068-2-64, 0.7Grms, random, 5 ~ 500Hz,

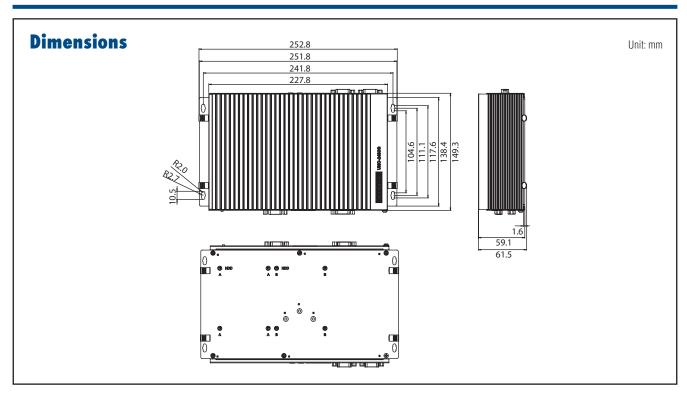
Ingress Protection

Application Software

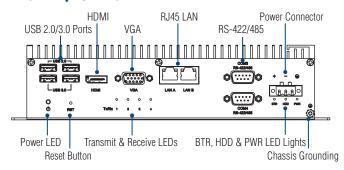
Version: V2.1 or above An innovative remote device management software, allowing **SUSIÂCCESS** efficient remote monitoring, quick recovery & backup, and real-time remote configuration, to create a more intelligent and interconnected embedded computing solution. Version: V7.1 or above WebAccess, as the 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 WebAcc ss 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. 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 **PANELEXPRESS** 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.

Version: V2.0.3.8 or above

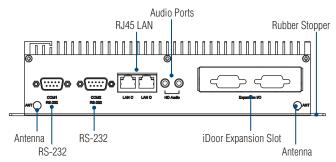
An easy to use integrated development tool featuring solutionoriented screen objects, high-end graphics, Windows fonts for multi-language applications. WebOP runtime, a part of WebOP Designer, guarantees reliability and performance because of the minimum system overhead, high communication data rates and sub-second screen switching.



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 mPCle

UNO-2483G-434AE

UNO-2483G-474AE

Intel® Core™ i3-4010U ULT 1.7GHz. 8GB. 4 x LANs. 2 x mPCle

Intel® Core™ i7-4650U ULT 1.7GHz, 8GB, 4 x LANs, 2 x mPCle

iDoor Modules

PCM-24D4R2-AE

PCM-24D4R4-AE

PCM-26D2CA-AE

PCM-27D24DI-AE

PCM-24R1TP-AE

PCM-2300MR-AE

PCM-24R2GL-AE

PCM-24R2PE-AE

PCM-24S2WF-AE

PCM-24S23G-AE

4-Port Non-Isolated RS-232 mPCle, DB37

4-Port Non-Isolated RS-422/485 mPCle, DB37

2-Port Isolated CANBus mPCle, CANOpen, DB9

24-Channel Isolated Digital I/O w/ counter mPCle, DB37

1-Port Gigabit Ethernet, Intel® 82574L, mPCIe, RJ45

MR4A16B, MRAM, 2 MByte, mPCle

2-Port Gigabit Ethernet, mPCIe, RJ45

2-Port Gigabit Ethernet, IEEE 802.3af (PoE) Compliant, mPCle, RJ45

WiFi 802.11 a/b/g/n 2T2R w/ Bluetooth4.0, Half-size mPCle, 2-port SMA

Wide-Temp 3.75G HSPA and GPS, 2-in-1, Full-size mPCle w/ Redundant SIM Card holder, 2-port SMA

Accessories

1757002321

PWR-249-AE

PWR-244-AE

1702002600 1702002605

1702031801

1700000596

1700001524

170203180A

170203183C

63WC to DC UNO series power adapter (Industrial Grade)

65W AC to DC power adapter (Commercial Grade) 96W AC to DC power adapter (Commercial Grade)

Power Cable US Plug 1.8 M (Industrial Grade) Power Cable EU Plug 1.8 M (Industrial Grade)

Power Cable UK Plug 1.8 M (Industrial Grade) Power Cable China/Australia Plug 1.8 M (Industrial Grade)

Power Cable 3-pin US type 1.8 M (Commercial Grade) Power Cable 3-pin EU type 1.8 M (Commercial Grade) Power Cable 3-pin UK type 1.8 M (Commercial Grade)

Embedded OS & Automation Software

2070012443

2070012949

968WEXP003X

968WEXP015X 968WEXP050X

Image WES7P MUI. V4.12 B001 for UNO-2483G Image WES7P X64 MUI, V4.12 B002 for UNO-2483G

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PanelExpress V2.0 5000 tags S/W license