

UNO-2483G

Intel® Core™ i7/i3/Celeron® 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, Audio
- Compact, with fanless design
- Rubber stopper design with captive screws
- 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
- LAN redundancy (teaming)



Introduction

Advantech's new generation UNO-2000 series of Embedded Automation Computers are a highly ruggedized fanless and modular design. It includes iDoor technology which supports automation feature extensions such as industry fieldbus communication, Wi-Fi/3G, Digital I/O. There are various form factor offering from Pocket-size, Palm, and Regular-size 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 Dimensions (W x D x H)

Form Factor Regular Size **Enclosure** Aluminum Housing Mounting Stand, Wall, VESA (Optional) 1.6kg (3.5lbs)

Weight (Net) Power Requirement

Power Consumption

44W (Typical), 87W (Max) **OS Support**

Microsoft® Windows 7/8, Windows 10, Advantech Linux

System Hardware

BIOS

Watchdog Timer Processor

System Chip Memory

Graphics Engine

Ethernet

LED Indicators

Storage

Expansion

AMI UEFI 128Mbit Flash BIOS

CE, FCC, UL, CCC, BSMI

 $24V_{DC} \pm 20\%$

252 x 149 x 62 mm (9.9" x 5.9" x 2.4")

Programmable 255 levels timer interval, from 1 to 255 sec 4th Gen Intel® Core™ i7-4650U ULT 1.7 GHz Dual Core 4th Gen Intel® Core™ i3-4010U ULT 1.7 GHz Dual Core 4th Gen Intel® Celeron® 2980U ULT 1.6 GHz Dual Core Integrated Intel SoC Chipset

Built-in 4GB DDR3L 1600 MHz for UNO-2483G-4C3AE Built-in 8GB DDR3L 1600 MHz for UNO-2483G-434AE and UNO-2483G-474AE

Intel® HD Graphics LAN A: Intel® i218-LM GbE, Intel® AMT (for UNO-2483G-474AE), IEEE1588/802.1AS, 802.3az

LAN B~D: Intel® i210-IT GbE, 802.1Qav, IEEE1588/802.1AS, 802.3az

LEDs for Power, battery, LAN (Active, Status), COM (Tx/Rx) and HDD

One mSATA Two drive bays for SATA 2.5" HDD (Compatible with

9.5mm height HDD) 2 x Full-size mPCle slot; 1 x Half-size mPCle slot, mPCle

I/O Interfaces

Serial Ports

LAN Ports

USB Ports Displays

Audio

Power Connector Environment

Operating Temperature

Storage Temperature Relative Humidity

Shock Protection Vibration Protection

Ingress Protection

2 x RS-232, DB9, 50 ~ 115.2kbps 2 x RS-422/485, DB9, auto flow control, 50 ~ 115.2kbps 4 x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000BASE-T Fast Ethernet

4 x USB Ports (2 x USB 2.0, 2 x USB 3.0 compliant) 1 x VGA, supports 1920 x 1080 @ 60Hz 24bpp 1 x HDMI 1.4a, supports 3840 x 2160 @30Hz 24bpp & 1920 x 1080 @60Hz, 24bpp

Line-In, Line-Out 1 x 3 Pins, Terminal Block

- 20 ~ 60°C (-4 ~ 140°F) @ 5 ~ 85% RH with 0.7m/s

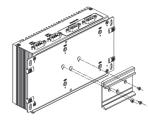
- 40 ~ 85°C (-40 ~ 185°F) 10 ~ 95% RH @ 40°C, non-condensing Operating, IEC 60068-2-27, 50G, half sine, 11ms

Operating, IEC 60068-2-64, 2Grms, random, 5 ~ 500Hz, 1hr/axis (mSATA)

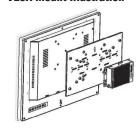
Operating, IEC 60068-2-64, 0.7Grms, random, 5 ~ 500Hz, 1hr/axis (HDD)

Installation Scenario

DIN-rail Mount Illustration



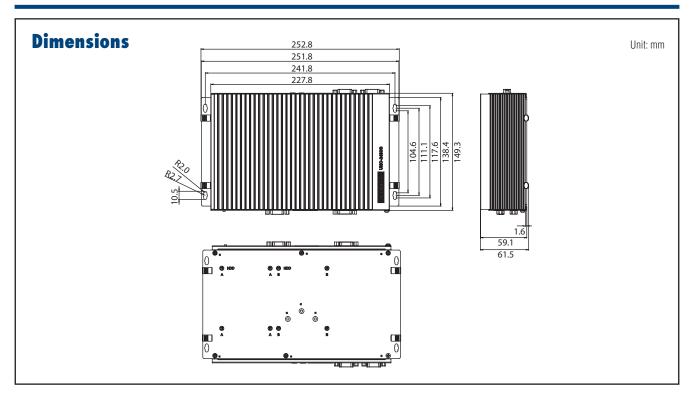
VESA Mount Illustration



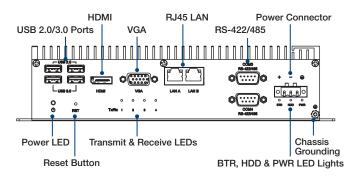
Last updated: 6-Jan-2021



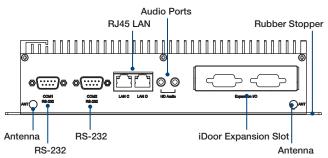
UNO-2483G



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

Intel® Core™ i3-4010U ULT 1.7GHz, 8GB, 4 x LANs, UNO-2483G-434AE 2 x mPCle

UNO-2483G-474AE Intel® Core™ i7-4650U ULT 1.7GHz, 8GB, 4 x LANs, 2 x mPCle

iDoor Modules

PCM-23C1CF-BE 1 CFast Slot with Cover Protection PCM-23U1DG-BE Internal locked USB Slot for USB Dongle PCM-24R2GL-AE 2-Port Gigabit Ethernet, mPCle, RJ45 PCM-24D2R2-BE 2-Port Isolated RS-232 mPCle, DB9

PCM-24D4R2-BE 4-Port Non-Isolated RS-232 mPCle, DB37 PCM-24S2WF-BE WiFi 802.11 ac/a/b/g/n 2T2R w/Bluetooth 4.1 PCM-24S33G-AE Wide-Temp 3.75G HSPA and GPS, Redundant SIM Card

holder PCM-2300MR-AE MR4A16B, MRAM, 2 MByte, mPCle

PCM-27D24DI-AE 24-Channel Isolated Digital I/O w/ counter mPCle, DB37

Optional Accessories

96PSA-A150W24T2

96PSA-A120W24T2

1702002600

1702002605 1702031801

1700000596

UNO-2000G-DMKAE

UNO-2000G-VMKAE

150WC to DC UNO series power adapter (Industrial Grade)

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

UNO-2000 VESA Mount Kit

Power Cable China/Australia Plug 1.8 M (Industrial Grade) UNO-2000 DIN Rail Kit

Embedded O/S

2070015070

20703WX6VS0000

2070013459

WIN10 Enterprise 2016 LTSB v6.01 B042 image for UNO-2483G-474AE

WIN10 Enterprise 2016 LTSB v6.01 B042 image for UNO-2483G-434AE & 2483G-4C3AE WES7P X64 MUI.V4.12 B003 image

Please note: If some optional modules are offered with the system, additional system certificates may be required in certain regions/countries. Please contact Advantech for certificate compliance.