UNO-2483G

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

NEW

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)

iD••r RoHS COMPLIANT 2002/95/EC CCC CE FCC c UL us LISTED E190881 I.T.E.

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	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_{DC} ± 20%
Power Consumption	44W (Typical), 87W (Max)
OS Support	Microsoft® Windows 7/8, Windows 10, Advantech Linux

System Hardware

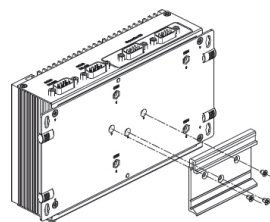|	
BIOS	AMI UEFI 128Mbit Flash BIOS
Watchdog Timer	Programmable 255 levels timer interval, from 1 to 255 sec
Processor	4th Gen Intel® Core™ i7-4650U ULT 1.7 GHz Dual Core 4th Gen Intel® Core™ i3-4010U ULT 1.7 GHz Dual Core 4th Gen Intel® Celeron® 2980U ULT 1.6 GHz Dual Core
System Chip	Integrated Intel SoC Chipset
Memory	Built-in 4GB DDR3L 1600 MHz for UNO-2483G-4C3AE Built-in 8GB DDR3L 1600 MHz for UNO-2483G-434AE and UNO-2483G-474AE
Graphics Engine	Intel® HD Graphics
Ethernet	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
LED Indicators	LEDs for Power, battery, LAN (Active, Status), COM (Tx/Rx) and HDD
Storage	One mSATA Two drive bays for SATA 2.5" HDD (Compatible with 9.5mm height HDD)
Expansion	2 x Full-size mPCIe slot; 1 x Half-size mPCIe slot, mPCIe 2.0

I/O Interfaces

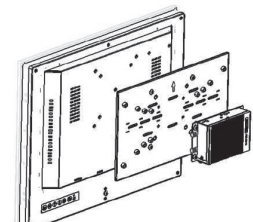|	
Serial Ports	2 x RS-232, DB9, 50 ~ 115.2kbps 2 x RS-422/485, DB9, auto flow control, 50 ~ 115.2kbps
LAN Ports	4 x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000BASE-T Fast Ethernet
USB Ports	4 x USB Ports (2 x USB 2.0, 2 x USB 3.0 compliant)
Displays	1 x VGA, supports 1920 x 1080 @ 60Hz 24bpp 1 x HDMI 1.4a, supports 3840 x 2160 @30Hz 24bpp & 1920 x 1080 @60Hz, 24bpp
Audio	Line-In, Line-Out
Power Connector	1 x 3 Pins, Terminal Block

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

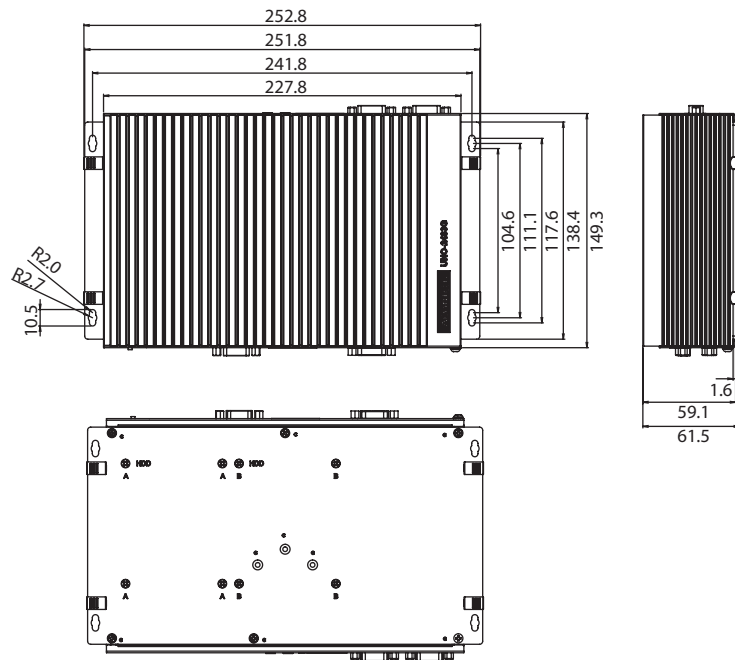## Installation Scenario

DIN-rail Mount Illustration
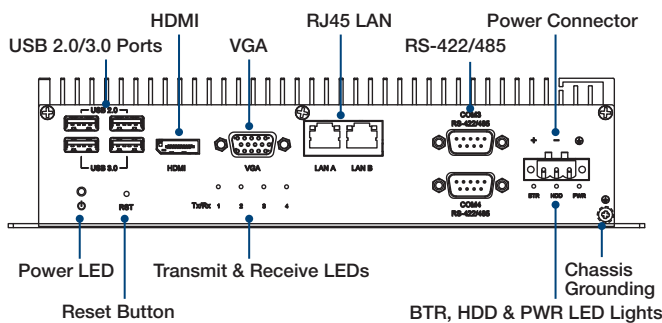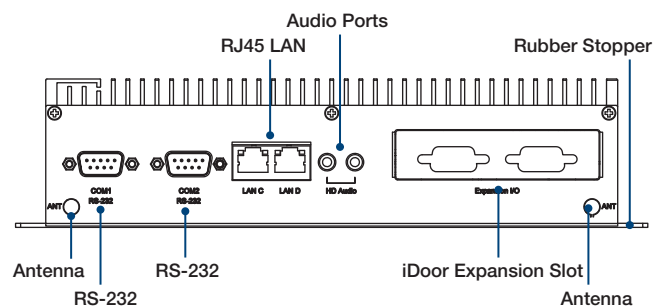
VESA Mount Illustration

Dimensions

Unit: mm

Front I/O View

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

USB 2.0
USB 3.0
HDMI
VGA
LAN A LAN B
COM3 RS-422/485
COM4 RS-422/485

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

Rear I/O View

Audio Ports
RJ45 LAN
Rubber Stopper

ANT
COM1 RS-232
COM2 RS-232
LAN C LAN D
HD Audio
Expansion I/O
ANT

Antenna
RS-232
RS-232
iDoor Expansion Slot
Antenna

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-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, mPCIe, RJ45
- **PCM-24D2R2-BE** 2-Port Isolated RS-232 mPCIe, DB9
- **PCM-24D4R2-BE** 4-Port Non-Isolated RS-232 mPCIe, 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, mPCIe
- **PCM-27D24DI-AE** 24-Channel Isolated Digital I/O w/ counter mPCIe, DB37

Optional Accessories

- **96PSA-A150W24T2** 150WC to DC UNO series power adapter (Industrial Grade)
- **96PSA-A120W24T2** 120WC to DC UNO series power adapter (Industrial 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)
- **UNO-2000G-DMKAE** UNO-2000 DIN Rail Kit
- **UNO-2000G-VMKAE** UNO-2000 VESA Mount Kit

Embedded O/S

- **2070015070** WIN10 Enterprise 2016 LTSB v6.01 B042 image for UNO-2483G-474AE
- **20703WX6VS0000** WIN10 Enterprise 2016 LTSB v6.01 B042 image for UNO-2483G-434AE & 2483G-4C3AE
- **2070013459** WES7P X64 MUI.V4.12 B003 image