UNO-2483G

Intel® Core™ i7/i3/Celeron Regular-Size Automation Computer w/ 4 x GbE, 2 x mPCIe, HDMI/VGA

NEW

iDoor SUSIAccess RoHS COMPLIANT 2002/95/EC CCC CE FCC c(UL)us LISTED E180881 I.T.E.

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 IO and Isolated Digital IO by iDoor Technology
- Supports Fieldbus Protocol by iDoor Technology
- 3G/GPS/GPRS/WiFi Communication by iDoor Technology
- Supports MRAM by iDoor Technology
- Chassis Grounding Protection
- LAN Redundancy (Teaming)
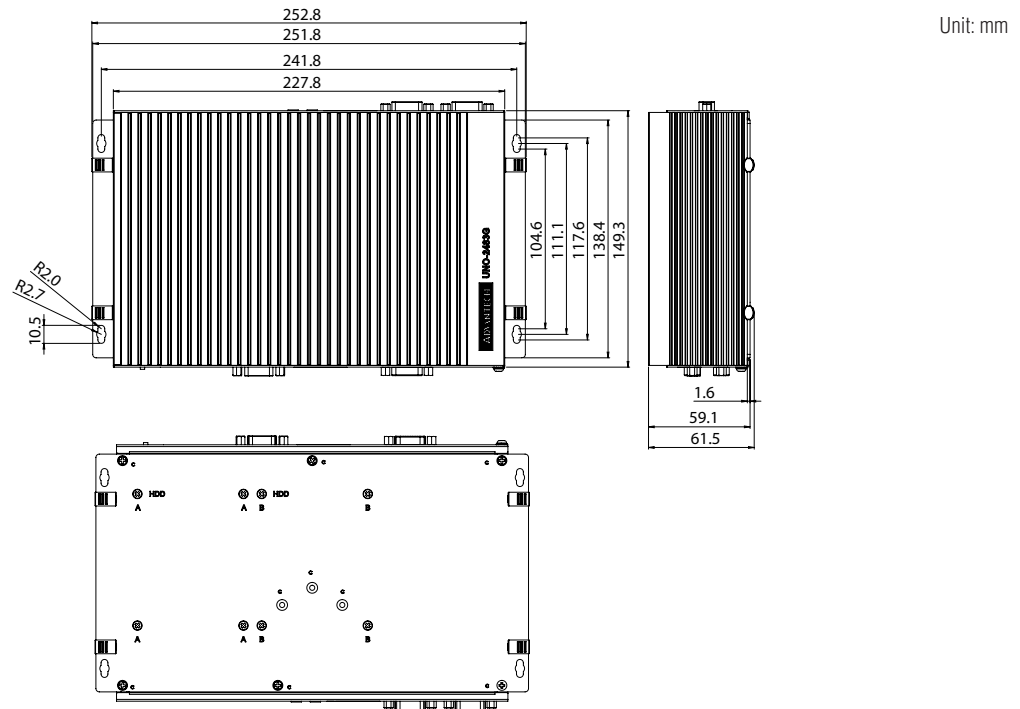- Fault-Protected RS-485 Transceivers With Extended Common-Mode Range

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$_{DC}$ ± 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
- **System Chip** — Integrated Intel 8 Series Chipset
- **Memory** — On-board 4GB/8GB DDR3L 1333/1600 MHz
- **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

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)
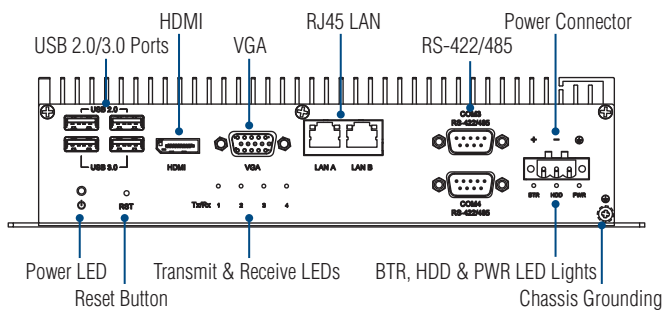- **Ingress Protection** — IP40

Application Software

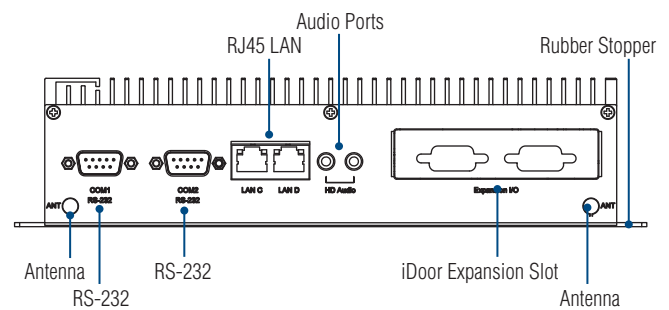|	
SUSIAccess	Version : V2.1 or above An innovative remote device management software, allowing efficient remote monitoring, quick recovery & backup, and real-time remote configuration, to create a more intelligent and interconnected embedded computing solution.
WebAccess	Version : V7.1 or above WebAccess, 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 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.
PANELEXPRESS Designed for Convenience	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 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 : V2.0.3.8 or 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.

Dimensions

Unit: mm

252.8
251.8
241.8
227.8

R2.0
R2.7
10.5

104.6
111.1
117.6
138.4
149.3

1.6
59.1
61.5

HDD A   HDD A B   B

A   A B   B

Front IO 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
BTR HDD PWR

Power LED
Reset Button
Transmit & Receive LEDs
Tx/Rx 1 2 3 4
BTR, HDD & PWR LED Lights
Chassis Grounding

Rear IO View

RJ45 LAN
Audio Ports
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-2300MR-AE**   MR4A16B, 2MByte
- **PCM-26D1PB-AE**   Hilscher netX100 FieldBus, ProfiBus, DB9 x 1
- **PCM-26D2CA-AE**   SJA1000 CANBus, CANOpen, DB9 x 1
- **PCM-24D2R4-AE**   OXPCIe-952 UART, Isolated RS-422/485, DB9 x 2
- **PCM-24D2R2-AE**   OXPCIe-952 UART, Isolated RS-232, DB9 x 2
- **PCM-24D4R4-AE**   OXPCIe-954 UART, Non-Isolated RS-422/485, DB37 x 1
- **PCM-24D4R2-AE**   OXPCIe-954, UART, Non-Isolated RS-232, DB37 x 1
- **PCM-27D24DI-AE**   Digital I/O, 16DI / 8DO, DB37 x 1

Accessories

- **1757002321**   63W, AC-DC, 100-240V, 24VDC 2.62A Power Supply
- **1702002600**   Power Cable US Plug 1.8 M
- **1702002605**   Power Cable EU Plug 1.8 M
- **1702031801**   Power Cable UK Plug 1.8 M
- **1700000596**   Power Cable China/Australia Plug 1.8 M

Embedded OS & Automation Software

- **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

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