

# UNO-1483G

Intel® Core™ i3 Regular-Size  
DIN-Rail Controller w/ 4 x GbE,  
2 x mPCIe, 1 PCIe, DP/VGA

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## Introduction

Advantech UNO-1483G is an Intel 4th generation Core i3 DIN-Rail controller. This controller featured with dual power input that shorten the down time to enhance operation excellence. The general purpose input/output ports also help machine builder integrate direct control of start/stop inspection and indicate inspection results. UNO-1483G also equipped with PCIe slot and Advantech iDoor technology that extend this product to motion controller, like motion control card, or isolation control unit from iDoor modules. In companion these features, UNO-1483G featured with 4 gigabyte LAN, 2 USB 3.0, 3 COM, DP, VGA can support essential link for upstream and downstream, for example, PoE connected to IP camera from iDoor.

## Specifications

### General

- **Certification** CE, FCC, UL, CCC, BSMI
- **Dimensions (W x D x H)** 110 x 198 x 139 mm (4.3" x 7.8" x 5.8")
- **Form Factor** Regular Size
- **Enclosure** Aluminum Housing
- **Mounting** DIN-rail, Wallmount
- **Weight (Net)** 1.6kg (3.5lbs)
- **Power Requirement** 12V/24V<sub>DC</sub> ± 20%
- **Power Consumption** 41W (Typical), 60W(Max)
- **OS Support** Microsoft® Windows 7/8, WES7/WES8, Linux Fedora

### System Hardware

- **BIOS** AMI UEFI 128Mbit Flash BIOS
- **Watchdog Timer** Programmable 256 levels timer interval, from 1 to 255 sec
- **Processor** Intel® Core™ i3-4010U ULT 1.7GHz Haswell Dual Core, 3MB L2
- **System Chip** Integrated Intel 8 Series Chipset
- **Memory** On-board 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 LEDs for Power, battery, LAN (Active, Status), Tx/Rx and HDD One drive bay 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 (supports mSATA / SIM card) 1x PCIe slot

### I/O Interfaces

- **Serial Ports** 1x RS-232, DB9, 50-115.2kbps 2x RS-422/485, DB9, auto flow control, 50-115.2kbps
- **LAN Ports** 4x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000Base-T Fast Ethernet, support IEEE 1588 and Jumbo Frame
- **USB Ports** 4x USB Ports (2 x USB2.0, 2 x USB3.0 compliant)
- **Displays** 1x VGA, supports 1920x1200@60Hz 24bpp 1x DP 1.2, supports 3200x2000@60Hz 24bpp Line-Out
- **Audio** 1x 7 Pins, Terminal Block to support dual power input and remote power control
- **Power Connector** Chassis Grounding
- **Grounding Protection** Chassis Grounding

## Features

- 4th Generation Intel® Core™ i3 Processors up to 1.7GHz with 8GB DDR3L Memory
- 4 x GbE, 4 x USB 2.0/3.0, 1 x RS-232, 2 x RS-422/485, 1 x VGA, 1 x DP, Audio
- Compact with Fanless Design
- 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 Battery-backup MRAM by iDoor Technology
- Chassis Grounding Protection
- LAN Redundancy (Teaming)
- Fault-Protected RS-485 Transceivers With Extended Common-Mode Range

### Environment

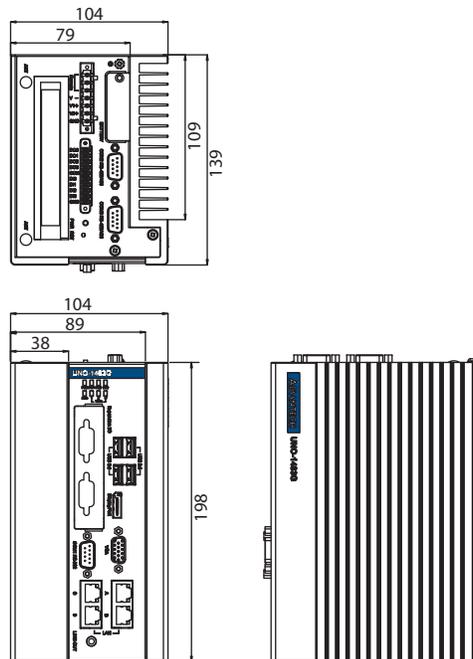
- **Operating Temperature** - 20 ~ 60°C (-4 ~ 140°F) @ 5 ~ 85% RH with 0.7m/s airflow
- **Storage Temperature** - 40 ~ 85°C (-40 ~ 185°F)
- **Relative Humidity** 10 ~ 95% RH @ 40°C, non-condensing
- **Shock Protection** Operating, IEC 60068-2-27, 50G, half sine, 11ms
- **Vibration Protection** Operating,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

## Application Software

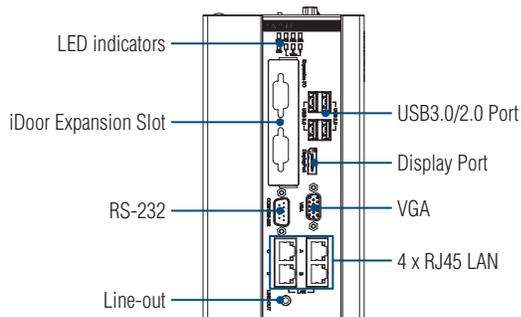
	<p>Version : V2.1 or above</p> <p>An innovative remote device management software, allowing efficient remote monitoring, quick recovery &amp; backup, and real-time remote configuration, to create a more intelligent and interconnected embedded computing solution.</p>
	<p>Version : V7.1 or above</p> <p>WebAccess, 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.</p>
	<p>Version : V2.0.3.8 or above</p> <p>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.</p>
	<p>Version : V2.0.3.8 or above</p> <p>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.</p>

## Dimensions

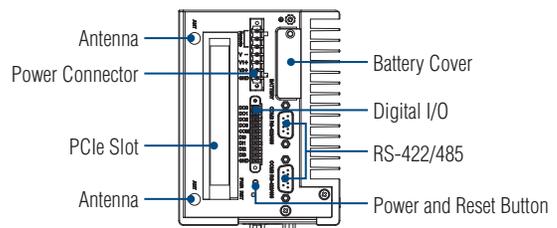
Unit: mm



## Front I/O View



## Top I/O View



## Ordering Information

- **UNO-1483G-434AE** Intel® Core™ i3-4010U ULT 1.7GHz, 8GB, 4xLANs, 2xMPCle, 1 PCIe Slot

## iDoor Modules

- **PCM-2300MR-AE** MR4A16B, battery-back MRAM, 2MByte
- **PCM-26D1PB-AE** Hilscher netX100 FieldBus, ProfiBus, DB9 x 1
- **PCM-26D2CA-AE** SJA1000 CANBus, CANOpen, DB9 x 1
- **PCM-24D2R4-AE** OXPcLe-952 UART, Isolated RS-422/485, DB9 x 2
- **PCM-24D2R2-AE** OXPcLe-952 UART, Isolated RS-232, DB9 x 2
- **PCM-24D4R4-AE** OXPcLe-954 UART, Non-Isolated RS-422/485, DB37 x 1
- **PCM-24D4R2-AE** OXPcLe-954, UART, Non-Isolated RS-232, DB37 x 1
- **PCM-27D24DI-AE** Digital I/O, 16DI / 8DO, DB37 x 1
- **IOP-23C1CT-AE** Cfast, Ejection Type I, 1 slot

## 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
- **1702031836** 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