

# UNO-1483G

Intel® Core™ i Regular-Size DIN-rail  
Controller w/ 4 x GbE, 3 x mPCIe,  
1 x PCIe, DP, VGA, 4 x DI, 4 X DO

NEW



iDoor susiAccess



## Introduction

The UNO-1483G is an Intel 4th generation Core i3 DIN-rail controller. This controller features dual power inputs that shorten down time and enhance operation excellence. The general purpose input/output ports also help machine builders integrate direct control of start/stop inspections and indicate inspection results. UNO-1483G is also equipped with PCIe slot and Advantech iDoor technology that extend this product to applications such as motion controller, or isolation control unit using iDoor modules. A UNO-1483G fitted with 4 gigabyte LAN, 2 USB 3.0, 3 COM, DP, and VGA provides essential upstream and downstream links. PoE, for example, can be connected to an IP camera using iDoor.

## Specifications

### General

- Certification CE, FCC, UL, CCC, BSMI
- Dimensions (W x D x H) 106 x 139 x 198 mm (4.2" x 5.8" x 7.8")
- Form Factor Regular Size
- Enclosure Aluminum Housing
- Mounting DIN-rail, Wallmount
- Weight (Net) 2.4kg (5.3lbs)
- Power Requirement 12V/24V<sub>DC</sub> ± 20%
- Power Consumption 40W (Typical), 55W (Max)
- OS Support Microsoft® Windows 7/8, WES7, WIN10 Ent. LTSB, AdvLinux

### System Hardware

- BIOS AMI UEFI 128Mbit Flash BIOS
- Watchdog Timer Programmable 255 levels timer interval, from 1 to 255 sec
- Processor Intel® 4th Gen. Core™ i3-4010U ULT 1.7GHz Haswell Dual Core, 3MB L2
- System Chip Core i7-4650U/i5-4300U/Celeron 2980U by project
- Memory Integrated Intel 8 Series Chipset
- Graphics Engine Built-in 8GB DDR3L 1600 MHz
- Ethernet Intel® HD Graphics 4400
- LAN B/C/D: Intel® i210-IT GbE
- LAN A: Intel® i218-LM GbE
- LED Indicators LEDs for Power, battery, LAN (Active, Status), COM (Tx/Rx) and HDD
- Storage 1 x mSATA
- Expansion One drive bay for SATA 2.5" HDD (Compatible with 9.5mm height HDD)
- 1 x Full-size mPCIe slot, mPCIe 2.0
- 1 x Half-size mPCIe slot w/ PCIe signal
- 1 x PCIe1x1 slot

### I/O Interfaces

- Serial Ports 1 x RS-232, DB9, 50~115.2kbps
- LAN Ports 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
- USB Ports 4 x USB Ports (2 x USB2.0, 2 x USB3.0)
- Isolated DIO 4-ch digital input (Wet/dry contact)
- 4-ch digital output (2500 V<sub>DC</sub>)
- Displays 1 x VGA, supports 1920x1080@60Hz 24bpp
- 1 x DP 1.2, supports 1920x1080@60Hz 24bpp
- Audio Line-Out
- Power Connector 1 x 7 Pins, Terminal Block to support dual power input and remote power control

## Features

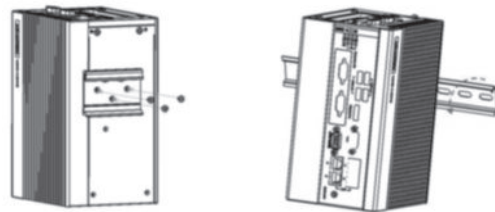
- 4th Generation Intel® Core™ i processors 1.7GHz with 8GB DDR3L memory
- 4 x GbE, 4 x USB 2.0/3.0, 1 x RS-232, 2 x RS-422/485, 1 x VGA, 1 x DP, audio
- Compact with fanless design
- Supports PCIe card, PoE iDoor module and digital I/O for machine motion/vision application
- Dual power input and remote power button for avoiding power down time and remote power control
- 3G/GPS/GPRS/Wi-Fi communication by iDoor technology
- Supports MRAM by iDoor technology
- Hot-Swap RTC battery with easily access at top side
- Supports Fieldbus protocol by iDoor technology

### Environment

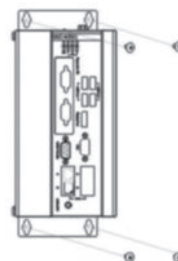
- Operating Temperature - 20 ~ 60°C (-4 ~ 140°F) @ 5 ~ 85% RH with 0.7m/s airflow
- Storage Temperature - 40 ~ 85°C (-40 ~ 185°F)
- Relative Humidity 10 ~ 95% RH @ 40°C, non-condensing
- Shock Protection Operating, IEC 60068-2-27, 50G, half sine, 11ms
- Vibration Protection Operating, IEC 60068-2-64,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

## Installation Scenario

### DIN-rail mounting illustration

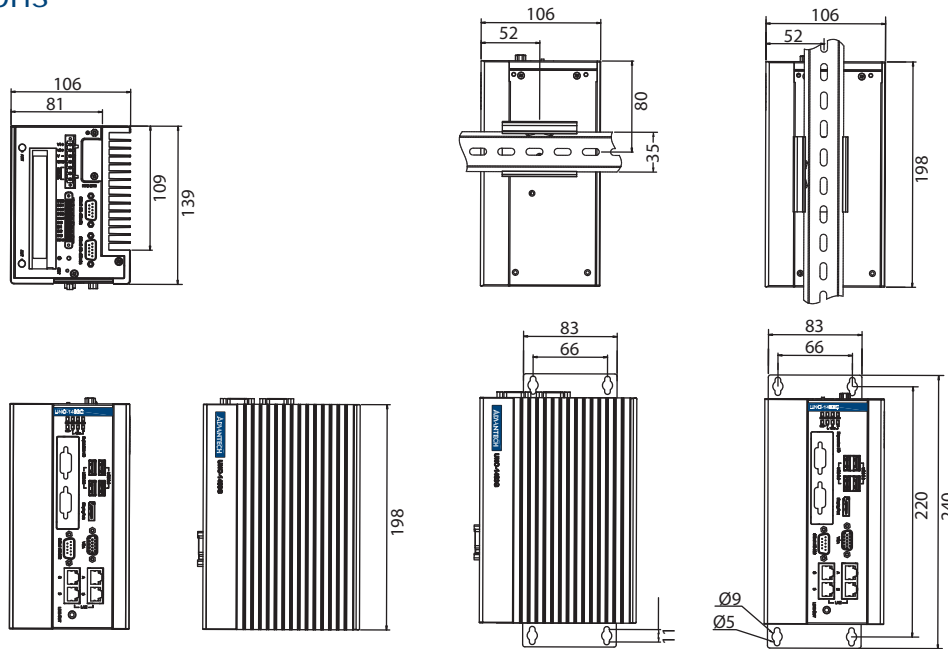


### Wall mounting illustration

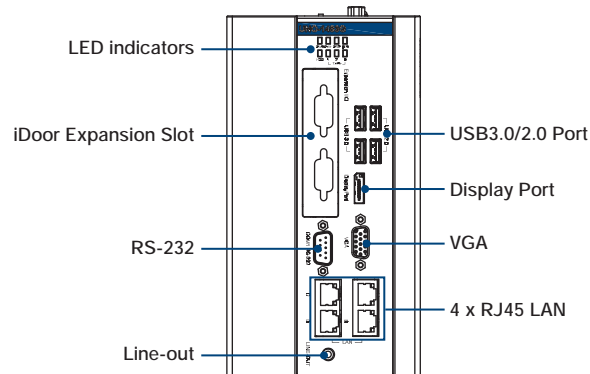


## Dimensions

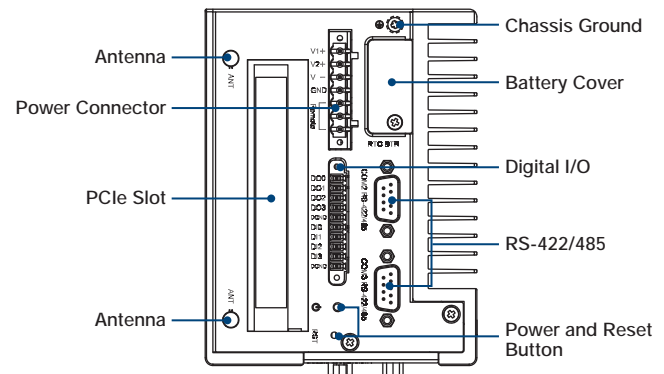
Unit: mm



## Front I/O View



## Top I/O View



## Ordering Information

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

Note: Processor i7-4650U/i5-4300U/Celeron 2980U reserved for project

## iDoor Modules

- PCM-24R2PE-AE Intel i350, GbE, PoE IEEE 802.3af, PD, RJ45 x 2
- PCM-24U2U3-AE 2 port USB 3.0 mini card
- PCM-2300MR-AE MR4A16B, 2MByte
- PCM-26D2CA-AE SJA1000 CANbus, CANopen, DB9 x 1
- PCM-24D2R4-BE OXPcie-952 UART, Isolated RS-422/485, DB9 x 2
- PCM-24S2WF-BE WiFi 802.11 ac/a/b/g/n 2T2R w/Bluetooth 4.1
- PCM-24S33G-AE 63.75G HSPA and GPS, Dual SIM card slots

## Optional Accessories

- 96PSA-A120W19T2 AC to DC 100-240V 120W Adapter
- 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 O/S

- 2070013050 Image WES7P X64 MUI. for UNO-1483G
- 2070013219 Image Linux for UNO-1483G
- 207UNWX5VS0000 Image WIN10 2016 LTSB v6.01 B060 for UNO-1483G