UNO-1483G

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



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,
- Compact with fanless design
- Supports PCle card, PoE iDoor module and digital I/O for machine motion/
- 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

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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 PCle 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 Dimensions (W x D x H)

Form Factor

Enclosure

Mounting Weight (Net) Power Requirement

Power Consumption

OS Support

CE, FCC, UL, CCC, BSMI 106 x 139 x 198 mm (4.2" x 5.8" x 7.8") Regular Size

Aluminum Housing

DIN-rail, Wallmount 2.4kg (5.3lbs) 12V/24V_{DC} ± 20%

40W (Typical), 55W (Max)

Microsoft® Windows 7/8, WES7, WIN10 Ent. LTSB, AdvLinux

System Hardware

BIOS

System Chip

Ethernet

Memory Graphics Engine

AMI UEFI 128Mbit Flash BIOS Watchdog Timer

Programmable 255 levels timer interval, from 1 to 255 sec Intel® 4th Gen. Core™ i3-4010U ULT 1.7GHz Haswell Dual Processor

Core, 3MB L2

Core i7-4650U/i5-4300U/Celeron 2980U by project

Integrated Intel 8 Series Chipset Built-in 8GB DDR3L 1600 MHz 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

1 x mSATA

Storage One drive bay for SATA 2.5" HDD (Compatible with 9.5mm

1 x Full-size mPCle slot, mPCle 2.0 1 x Half-size mPCle slot w/ PCle signal

I/O Interfaces

Expansion

Serial Ports 1 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

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_{DC}) 1 x VGA, supports 1920x1080@60Hz 24bpp Displays

1 x DP 1.2, supports 1920x1080@60Hz 24bpp

Power Connector 1 x 7 Pins, Terminal Block to support dual power input and remote power control

Environment

Operating Temperature

Storage Temperature Relative Humidity

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

- 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, 1Grms, random, 5 ~ 500Hz,

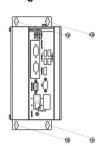
Installation Scenario

DIN-rail mounting illustration

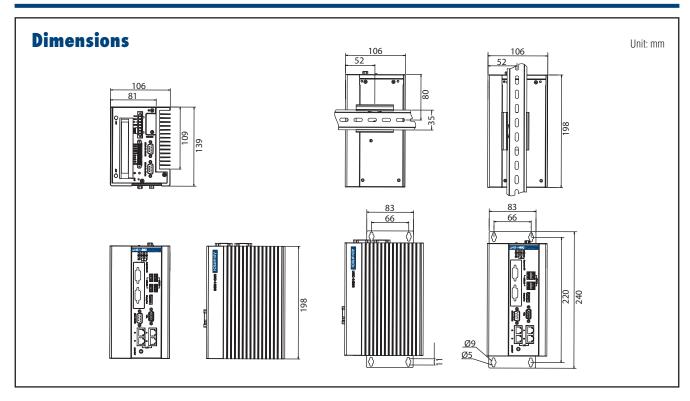




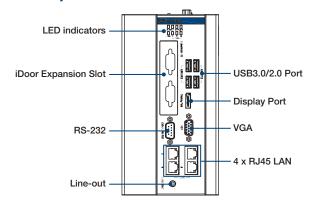
Wall mounting illustration



All product specifications are subject to change without notice.



Front I/O View



Ordering Information

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

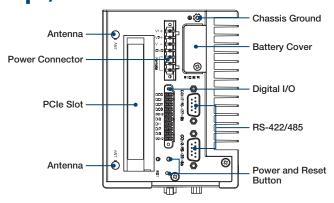
PCM-2300MR-AE MR4A16B, 2MByte

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

Top I/O View



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

2070013219

Image Linux for UNO-1483G 207UNWX5VS0000

Image WIN10 2016 LTSB v6.01 B060 for UNO-1483G 20703WE7PS0013 Img WS7P x64 MUI V4.18 B026 UNO-1483G-43xAE Img WS7P x86 MUI V4.18 B023 UNO-1483G-43xAE 20703WE7PS0014

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.