UNO-1372GH

Class I, Division 2 Certified Intel® Atom™ Quad-Core Control DIN-rail PC

NEW

Features

- UL listed for Hazardous Locations: Class I, Division 2
- Intel® Atom E3845 1.91GHz processor with 4GB DDR3L Memory
- 3 x GbE, 3 x USB, 2 x COM, 1 x VGA, 1 x HDMI, Audio, iDoor, mSATA, 2mPCIe, 1 x SATA, 8 x DIO, 1 x Power Terminal
- Spark-free design with lockable I/O kit
- Dual Power Input for Reducing Power Down Time
- Exchangeable RTC Battery with easy Access on the Top
- Digital I/O with Isolation Protection for Sensing and controlling
- Diverse system IO and Supports Fieldbus Protocol by iDoor Technology as a Protocol Gateway
- 3G/GPS/GPRS/Wi-Fi Communication by iDoor Technology as a Communication Gateway
- Supports MRAM by iDoor Technology
- Chassis Grounding Protection
- LAN Redundancy (Teaming)

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

Introduction

In hazardous locations, devices are under potential danger from flammable gases, combustible dust, or ignitable fibers, creating the potential for fire and explosions. The UNO-1372GH is designed to be safely operated in these locations and are UL listed for Hazardous Locations with Class I, Division 2, groups A, B, C, D T4A certification. The UNO-1372GH is an Intel Atom DIN-rail PC which features an innovative iDOOR Technology for automation applications. It provides rich I/O include 3 x GbE, 3 x USB, 2 x COM, 1 x VGA, 1 x HDMI, Audio, iDoor,8 x DIO, all of them can be locked with system by lockable kit to make sure spark-free in harsh environment.

Specifications

General

Certification	CE, FCC, UL, CCC, BSMI
	Class I, Division 2, Groups A,B,C,D, Hazardous Location,
	Temperature code: T4A, Ambient Temperature Range: -20°C - 60°C
Dimensions (W x D x H)	85 x 139 x 152 mm (3.3" x 5.5" x 6.0")
Form Factor	Small Size
Enclosure	Aluminum Housing
Mounting	DIN-rail, Wallmount
Weight (Net)	1.6kg (3.5lbs)
Power Requirement	9~36V_{DC}
Power Consumption	24W (Typical)
OS Support	Microsoft® Windows 7/8, WES7, WIN10 Ent. LTSB, AdvLinux

System Hardware

BIOS	AMI UEFI 128Mbit Flash BIOS
Watchdog Timer	Programmable 6 levels timer interval, from 15 to 255 sec
Processor	Intel Atom E3845 1.91GHz, 2MB L2 Cache
System Chip	Integrated Intel SoC Chipset
Memory	On-board 4GB DDR3L 1333 MHz
Graphics Engine	Intel® HD Graphics
Ethernet	Intel® i210-IT GbE, 802.1Qav, 802.1AS, 802.3az
	Realtek RTL8111E GbE
LED Indicators	LEDs for Power, battery, LAN (Active, Status), Tx/Rx and HDD
Storage	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,1x mSATA (Full-size)

I/O Interfaces

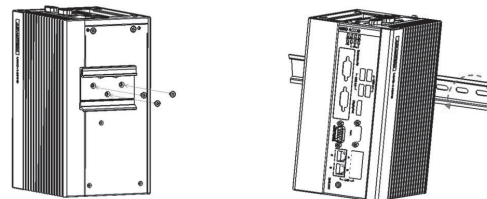|	
Serial Ports	1 x RS-232, DB9, 50~115.2kbps
	1 x RS-422/485, DB9, auto flow control, 50~115.2kbps
LAN Ports	3 x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000Base-T Fast Ethernet, support Jumbo Frame
USB Ports	3 x USB Ports (2 x USB2.0, 1 x USB 3.0 compliant)
Isolated DIO	4-ch digital input, (Wet/dry contact with Isolation Protection 2,500 VDC) 4-ch digital output (Compatible 5 V/TTL, Capable Sink: 24 mA max. per channel)
Displays	1 x VGA, supports 1920 x 1200 @ 60Hz 24bpp
	1 x HDMI 1.4a, supports 1920 x 1080 @ 60Hz 24bpp
Audio	Line-Out

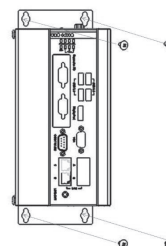|	
Power Connector	1 x 4 Pins, Terminal Block to support dual power input
Grounding Protection	Chassis Grounding

Environment

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

Installation Scenario
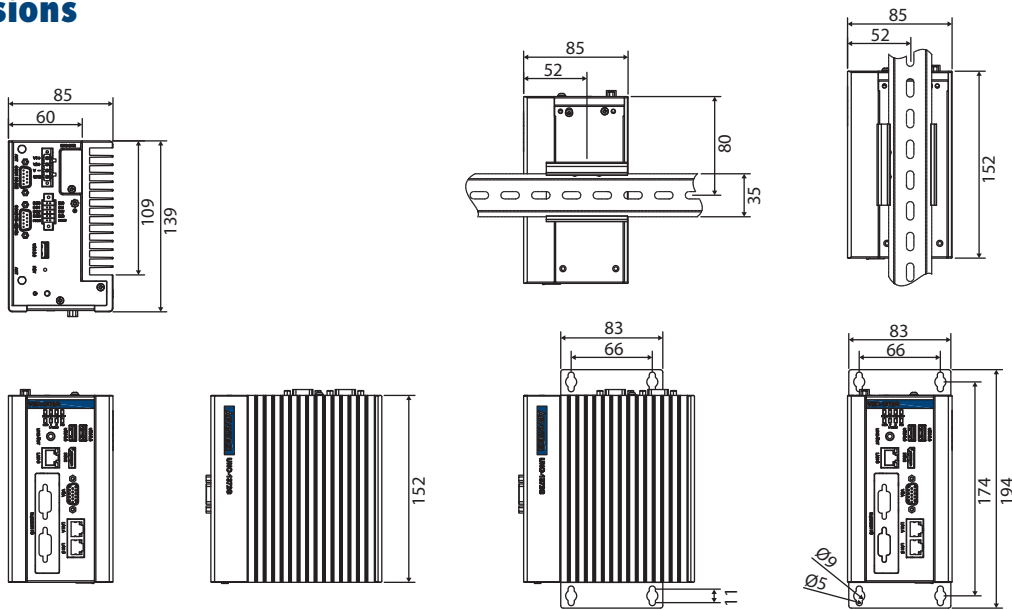
DIN-rail mounting illustration
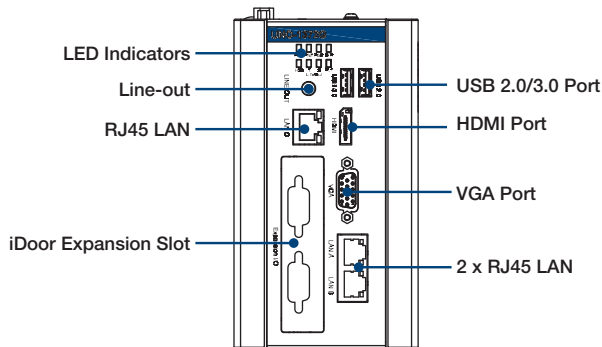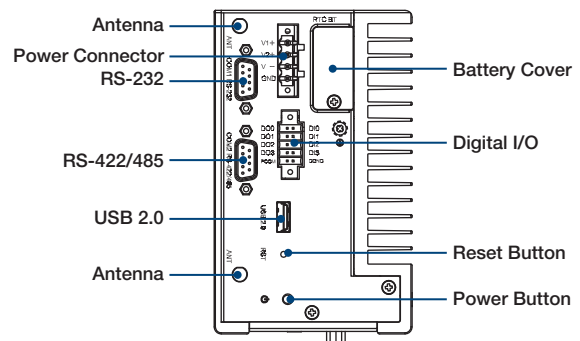

Wall mounting illustration

All product specifications are subject to change without notice.   Last updated: 18-Oct-2017

Dimensions

Unit: mm

Front I/O View

LED Indicators
Line-out
RJ45 LAN
iDoor Expansion Slot

USB 2.0/3.0 Port
HDMI Port
VGA Port
2 x RJ45 LAN

Top I/O View

Antenna
Power Connector
RS-232
RS-422/485
USB 2.0
Antenna

Battery Cover
Digital I/O
Reset Button
Power Button

Ordering Information

- **UNO-1372GH-E3AE**   Class I, Division 2 Certified Intel Atom Quad-Core 1.91GHz, 4GB, 3 x LAN, 2 mPCIe, iDoor

iDoor Modules

- **PCM-23C1CF-AE**   1 CFast Slot with Cover Protection
- **PCM-23U1DG-AE**   USB Slot w/ Lock for USB Dongle
- **PCM-24R2GL-AE**   2-Port Gigabit Ethernet, mPCIe, RJ45
- **PCM-24U2U3-AE**   2-Port USB 3.0, mPCIe, USB-A type
- **PCM-24D2R4-AE**   2-Port Isolated RS-422/485 mPCIe, DB9
- **PCM-24D4R4-AE**   4-Port Non-Isolated RS-422/485 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, 2-in-1, Full-size mPCIe w/ Redundant SIM Card holder, 2-port SMA
- **PCM-26R2PN-MAE**   2-Port Hilscher netX100 FieldBus mPCIe, PROFINET, RJ45, Master
- **PCM-26R2PN-SAE**   2-Port Hilscher netX100 FieldBus mPCIe, PROFINET, RJ45, Slave
- **PCM-26D1DB-MAE**   1-Port Hilscher netX100 FieldBus mPCIe, PROFIBUS, DB9, Master
- **PCM-26D1DB-SAE**   1-Port Hilscher netX100 FieldBus mPCIe, PROFIBUS, DB9, Slave

Optional Accessories

- **PWR-247-CE**   ADP A/D 100-240V 60W 24V (Commercial 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-IPS2460-AE**   24 V_{DC}/ 60 Watts DIN-Rail Power Supply

Embedded O/S

- **2070014956**   Image Win10 Enterprise 2016 LTSB X64 MUI for UNO-1372G
- **2070013467**   Image WES7P X64 MUI. for UNO-1372G
- **2070014549**   Image AdvLinuxTU for UNO-1372G
- **2070014098**   Image WEC7 MUI for UNO-1372G