UNO-1372GH

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









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, 2 x mPCle, 1 x SATA, 4 x DI, 4 x DO, 1 x power terminal
- Spark-free design with lockable I/O kit
- Dual power input for avoiding 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
- LAN redundancy (teaming)

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 to make sure they are spark-free in harsh environments

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

Dimensions (WxDxH) 85 x 139 x 152 mm (3.3" x 5.5" x 6.0")

Form Factor Small Size Aluminum Housing **Enclosure** DIN-rail, Wallmount Mounting

Weight (Net) 1.6kg (3.5lbs) **Power Requirement** 10~36V_{DC} (Recommend 12/24 V_{DC}) **Power Consumption** 24W (Typical), 50W (Max)

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

System Hardware

BIOS AMI UEFI 128Mbit Flash BIOS

Watchdog Timer Programmable 255 levels timer interval, from 1 to 255 sec

Processor Intel Atom E3845 1.91GHz, 2MB L2 Cache Integrated Intel SoC Chipset

System Chip Memory Built-in 4GB DDR3L 1333 MHz (Up to 8GB)

Graphics Engine Intel® HD Graphics

Ethernet

LAN A, B: Intel® i210-IT GbE, 802.1Qav, 802.1AS, 802.3az LAN C: Realtek RTL8111E GbE

LEDs for Power, battery, LAN (Active, Status), COM (Tx/Rx),

HDD and Programmable LED

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

height HDD) 2 x Full-size mPCle slot

Expansion I/O Interfaces

LED Indicators

Serial Ports 1 x RS-232, DB9, 50bps~115.2kbps

1 x RS-422/485, DB9, auto flow control, 50bps~115.2kbps LAN Ports 3 x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000BASE-T Fast

Ethernet

USB Ports

3 x USB Ports (2 x USB2.0, 1 x USB 3.0) **Isolated DIO** 4-ch digital input, 4-ch digital output (2500 VDC) 1 x VGA, supports 1920 x 1080 @ 60Hz 24bpp Displays

1 x HDMI 1.4a, supports 1920 x 1080 @ 60Hz 24bpp nihuA

Power Connector 1 x 4 Pins, Terminal Block to support dual power input

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 Vibration Protection

Ingress Protection

Operating, IEC 60068-2-27, 50G, half sine, 11ms Operating, IEC 60068-2-64, 5Grms, random, 5 ~ 500Hz,

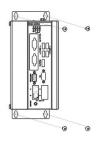
Installation Scenario

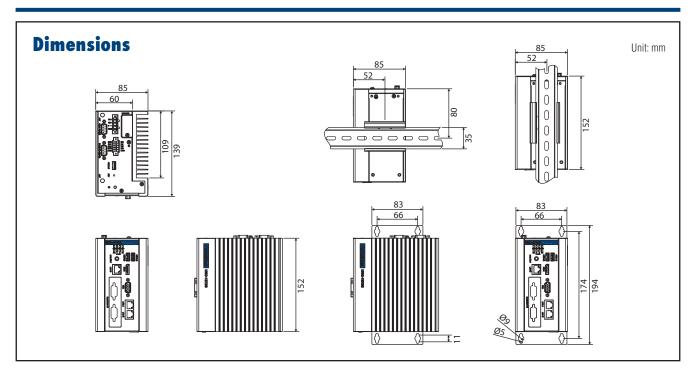
DIN-rail mounting illustration



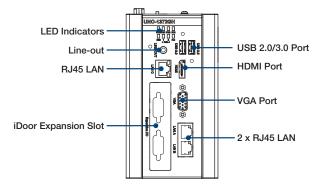


Wall mounting illustration





Front I/O View



Ordering Information

UNO-1372GH-E3AE

Class I. Division 2 Certified Intel Atom Quad-Core 1.91GHz, 4GB, 3 x LAN, 2 mPCle, iDoor

iDoor Modules

PCM-23C1CF-BE PCM-23U1DG-BE

PCM-24R2GL-AF PCM-24U2U3-AE

PCM-24D2R4-BE PCM-24D4R4-BE

PCM-24S2WF-BE PCM-24S33G-AE

PCM-26R2PN-MAE

PCM-26R2PN-SAE PCM-26D1DB-MAE

PCM-26D1DB-SAE

1 CFast Slot with Cover Protection USB Slot w/ Lock for USB Dongle

2-Port Gigabit Ethernet, mPCle, RJ45 2-Port Grgabit Ethieritet, mit die, 1945 2-Port USB 3.0, mPCle, USB-A type 2-Port Isolated RS-422/485 (405 m.P.Dle

4-Port Non-Isolated RS-422/485 mPCle, DB37 WiFi 802.11 ac/a/b/g/n 2T2R w/Bluetooth 4.1

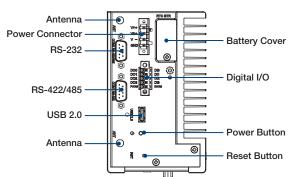
Wide-Temp 3.75G HSPA and GPS, 2-in-1, Full-size mPCle w/ Redundant SIM Card holder, 2-port SMA

2-Port Hilscher netX100 FieldBus mPCle, PROFINET, RJ45, Master

2-Port Hilscher netX100 FieldBus mPCle, PROFINET, RJ45, Slave

1-Port Hilscher netX100 FieldBus mPCle, PROFIBUS, 1-Port Hilscher netX100 FieldBus mPCle, PROFIBUS,

Top I/O View



Optional Accessories

PWR-247-DE

1702002600 1702002605

1702031801

1700000596 UNO-IPS2460-AE

100-240V 60W 24V 2.5A Power Supply Power Cable US Plug 1.8 M (Industrial Grade) Power Cable EU Plug 1.8 M (Industrial Grade) Power Cable UK Plug 1.8 M (Industrial Grade)

Power Cable China/Australia Plug 1.8 M (Industrial Grade) 24 V_{DC}/ 60 Watts DIN-Rail Power Supply

Embedded O/S

20703WX9ES0026

20703LEB1S0091 20703WC70S0037

20703WE7PS0010

20703WE7PS0011

Img W10LTSC x64 V6.05 B021 UNO-1372G-ExAE Entry Image AdvLinuxTu V2.0.6 for UNO/TPC series Img WEC7 MUI V4.02 B117 for UNO-1372G

Img WS7P X64 MUI V4.18 B024 for UNO-1372G Img WS7P X86 MUI V4.18 B021 for UNO-1372G

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.