UNO-1372G

Intel[®] Atom[™] Quad-Core Small Size Control DIN-rail PC w/ 3 x GbE. built-in 4GB DDR3L, 2 x mPCIe, 1 mSATA, 2 x COM, 8 x DI/O, 3 x USB, HDMI, VGA



Features

- 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
- Compact with fanless design
- 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

(Industry SSD)

1 hr/axis

IP40

- Supports MRAM by iDoor technology
- LAN redundancy (teaming)

Introduction

The UNO-1372G is an Intel Atom Quad-Core DIN-rail controller. This controller features dual power inputs that shorten the down time to enhance operation excellence. The general purpose input/output ports also help machine builders integrate direct control of start/stop inspection and indicate inspection results. The UNO-1372G is also equipped with Advantech iDoor technology that uses iDoor modules to extend this product to become a gateway controller, such as a PoE card, or isolation serial port card. The UNO-1372G also features 3 gigabyte LAN ports, 1 USB 3.0 port, 2 COM ports and HDMI& VGA display ports for essential upstream and downstream links, for example, PoE connected to IP camera from iDoor.

Specifications

General

- Certification
- Dimensions (W x D x H) 85 x 139 x 152 mm (3.3" x 5.5" x 6.0")
- Form Factor
- Enclosure
- Mounting
 - Weight (Net)
- Power Requirement
- **Power Consumption OS Support**
- System Hardware
- BIOS
- Watchdog Timer
- Processor
- System Chip
- Memory
- **Graphics Engine**
- Ethernet
- LED Indicators
- Storage
- Expansion

I/O Interfaces

- Serial Ports
- LAN Ports

- Displays
- Power Connector

- DIN-rail, Wallmount 1.6kg (3.5lbs) 9~36V_{DC} (Recommend 12/24 V_{DC}) 24W (Typical), 50W (Max) Microsoft® Windows 7/8/10, WES7, AdvLinux
- AMI UEFI 128Mbit Flash BIOS

CE, FCC, UL, CCC, BSMI

Small Size

Aluminum Housing

- Programmable 255 levels timer interval, from 1 to 255 sec Intel Atom E3845 1.91GHz, 2MB L2 Cache
- Integrated Intel SoC Chipset
- - LAN C: Realtek RTL8111E GbE
 - HDD and programmer LED
 - One drive bay for SATA 2.5" HDD (Compatible with 9.5mm
 - 2 x Full-size mPCle slot

- USB Ports
- Isolated DIO
- Audio

- Ethernet
- 3 x USB Ports (2 x USB2.0, 1 x USB 3.0)
- 4-ch digital input, 4-ch digital output (2500 V_{DC}) 1 x VGA, supports 1920 x 1080 @ 60Hz 24bpp
 - 1 x HDMI 1.4a, supports 1920 x 1080 @ 60Hz 24bpp
 - Line-Out
 - 1 x 4 Pins, Terminal Block to support dual power input

Environment

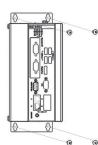
- **Operating Temperature**
- - **Storage Temperature** - 40 ~ 85°C (-40 ~ 185°F) 95% RH @ 40°C, non-condensing
 - **Relative Humidity Shock Protection**
- **Vibration Protection**
- Ingress Protection

Installation Scenario

DIN-rail mounting illustration



Wall mounting illustration



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

Operating, IEC 60068-2-27, 50G, half sine, 11ms

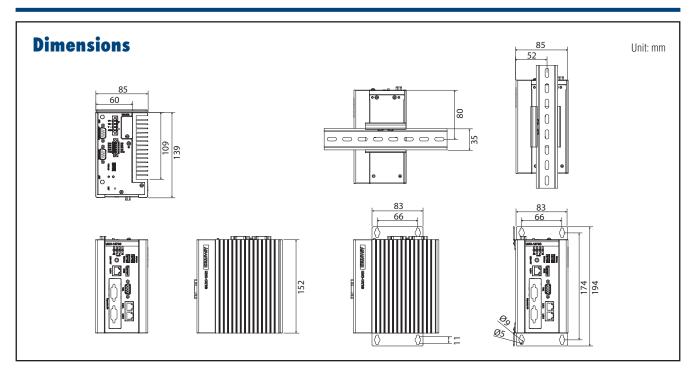
Operating, IEC 60068-2-64, 5Grms, random, 5 ~ 500Hz,

- Intel[®] HD Graphics
 - LAN A, B: Inte['] i210-IT GbE, 802.1Qav, 802.1AS, 802.3az
- LEDs for Power, battery, LAN (Active, Status), COM (Tx/Rx),
- 1 x mSATA
- height HDD)

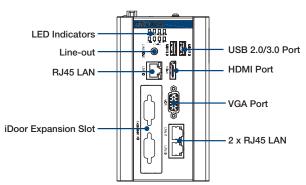
 - 1 x RS-232, DB9, 50bps~115.2kbps
 - 1 x RS-422/485, DB9, auto flow control, 50bps~115.2kbps 3 x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000BASE-T Fast

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

UNO-1372G



Front I/O View



Ordering Information Intel Atom Quad-Core 1.91GHz, 4GB, 3 x LAN, 2 mPCle,

UNO-1372G-E3AE

iDoor Modules

PCM-23C1CF-BE 1 CFast Slot with Cover Protection USB Slot w/ Lock for USB Dongle PCM-23U1DG-BE

iDoor

RJ45, Master

RJ45, Slave

DB9, Master

DB9, Slave

2-Port Gigabit Ethernet, mPCIe, RJ45

2-Port USB 3.0, mPCle, USB-A type 2-Port Isolated RS-422/485 mPCle, DB9 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 mPCIe, PROFINET,

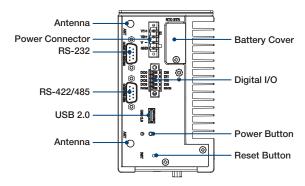
2-Port Hilscher netX100 FieldBus mPCIe, PROFINET,

1-Port Hilscher netX100 FieldBus mPCle, PROFIBUS,

1-Port Hilscher netX100 FieldBus mPCle, PROFIBUS,

- PCM-24R2GL-AE
- 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

Top I/O View



Optional Accessories 100-240V 60W 24V 2.5A Power Supply

- PWR-247-DE
- 1702002600 1702002605 -
- 1702031801
- 1700000596

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)

Embedded O/S

- 20703WX9ES0026
- 20703LEB1S0091 20703WE7PS0010
- 20703WE7PS0011
- 20703WC70S0037

Img W10LTSC x64 V6.05 B021 UNO-1372G-ExAE Entry Image AdvLinuxTu V2.0.6 for UNO/TPC series Img WS7P X64 MUI V4.18 B024 for UNO-1372G Img WS7P X86 MUI V4.18 B021 for UNO-1372G Img WEC7 MUI V4.02 B117 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.

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