# UNO-1372G

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



# CEFCC CONSTRUCTION CONTROLL CONTROL CON

#### **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
- 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 (WxDxH) **Form Factor** 

Enclosure

Mounting

Weight (Net)

Power Requirement

**Power Consumption** 

**OS Support** 

CE, FCC, UL, CCC, BSMI

Small Size

1.6kg (3.5lbs)

24W (Typical), 50W (Max)

#### **System Hardware**

BIOS

Watchdog Timer

Processor System Chip

Memory

Graphics Engine

Ethernet

LED Indicators

Storage

Expansion

USB Ports **Isolated DIO** 

Displays

Audio **Power Connector**  85 x 139 x 152 mm (3.3" x 5.5" x 6.0")

Aluminum Housing

DIN-rail, Wallmount

9~36V<sub>DC</sub> (Recommend 12/24 V<sub>DC</sub>)

Microsoft® Windows 7/8/10, WES7, AdvLinux

AMI UEFI 128Mbit Flash BIOS Programmable 255 levels timer interval, from 1 to 255 sec

Intel Atom E3845 1.91GHz, 2MB L2 Cache

Integrated Intel SoC Chipset Built-in 4GB DDR3L 1333 MHz (Up to 8GB)

Intel® HD Graphics

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 programmer LED

1 x mSATA

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

height HDD)

2 x Full-sizé mPCle slot

#### I/O Interfaces

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

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

3 x USB Ports (2 x USB2.0, 1 x USB 3.0)

4-ch digital input, 4-ch digital output (2500 V<sub>DC</sub>) 1 x VGA, supports 1920 x 1080 @ 60Hz 24bpp 1 x HDMI 1.4a, supports 1920 x 1080 @ 60Hz 24bpp

All product specifications are subject to change without notice.

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

#### **Environment**

**Operating Temperature** 

Storage Temperature

Relative Humidity

**Shock Protection** 

**Vibration Protection** 

Ingress Protection

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

- 40 ~ 85°C ( -40 ~ 185°F)

95% RH @ 40°C, non-condensing

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

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

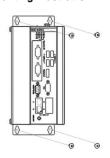
# **Installation Scenario**

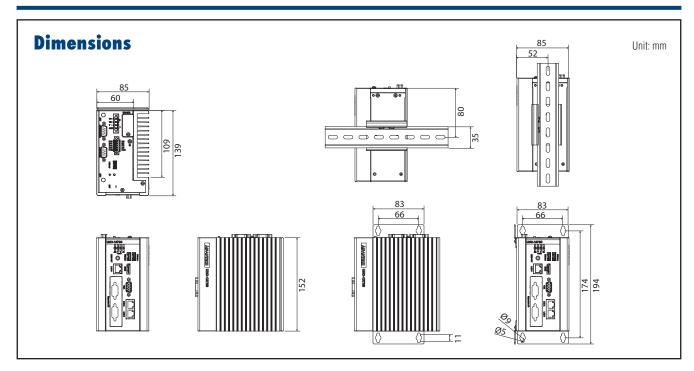
#### **DIN-rail mounting illustration**



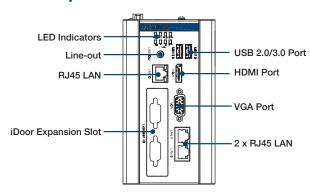


#### **Wall mounting illustration**





## Front I/O View



# **Ordering Information**

UNO-1372G-E3AE

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

### iDoor Modules

PCM-23C1CF-BE PCM-24R2GL-AE

PCM-24U2U3-BE PCM-24D2R4-BE

PCM-24D4R4-BE PCM-24S2WF-BE PCM-26R2PN-MAE

PCM-26R2PN-SAE

PCM-26D1DB-MAE

■ PCM-26D1DB-SAE

1 CFast Slot with Cover Protection 2-Port Gigabit Ethernet, mPCle, RJ45

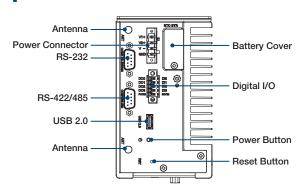
2-Port USB 3.0, mPCle, USB-A type 2-Port Isolated RS-422/485 mPCle, DB9 4-Port Non-Isolated RS-422/485 mPCle, DB37

WiFi 802.11 ac/a/b/g/n 2T2R w/Bluetooth 4.1 2-Port Hilscher netX100 FieldBus mPCle, PROFINET, RJ45, IO-Controller 2-Port Hilscher netX100 FieldBus mPCle, PROFINET,

RJ45, IO-Device 1-Port Hilscher netX100 FieldBus mPCle, PROFIBUS, DB9, Master

1-Port Hilscher netX100 FieldBus mPCle, PROFIBUS, DB9, Slave

# Top I/O View



# **Optional Accessories**

PWR-247-DE 1702002600

1702002605 1702031801

1700000596-11

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)

# 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.