UNO-1372G

Intel® Atom™ Quad-Core Small- Size Control DIN-Rail PC w/ 3 x GbE, on-board 4GB DDR3L SDRAM, 2 x mPCIe, 1 mSATA, 2 x COM, 8 x DI/O, 3 x USB, HDMI/VGA

NEW

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, 2mPCIe, 1 x SATA, 8 x DIO, 1 x Power Terminal
- Compact with Fanless Design
- 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)

Introduction

The UNO-1372G is an Intel Atom Quad-Core DIN-Rail controller. This controller featured with dual power input 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** — CE, FCC, UL, CCC, BSMI
- **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)
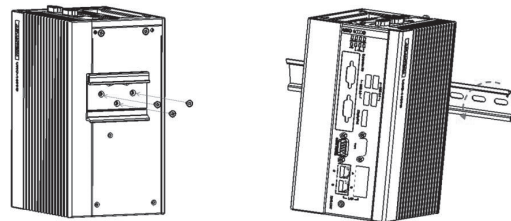
I/O Interfaces

- **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
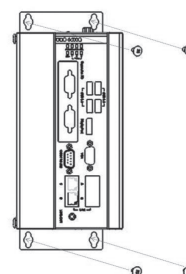
Environment

- **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

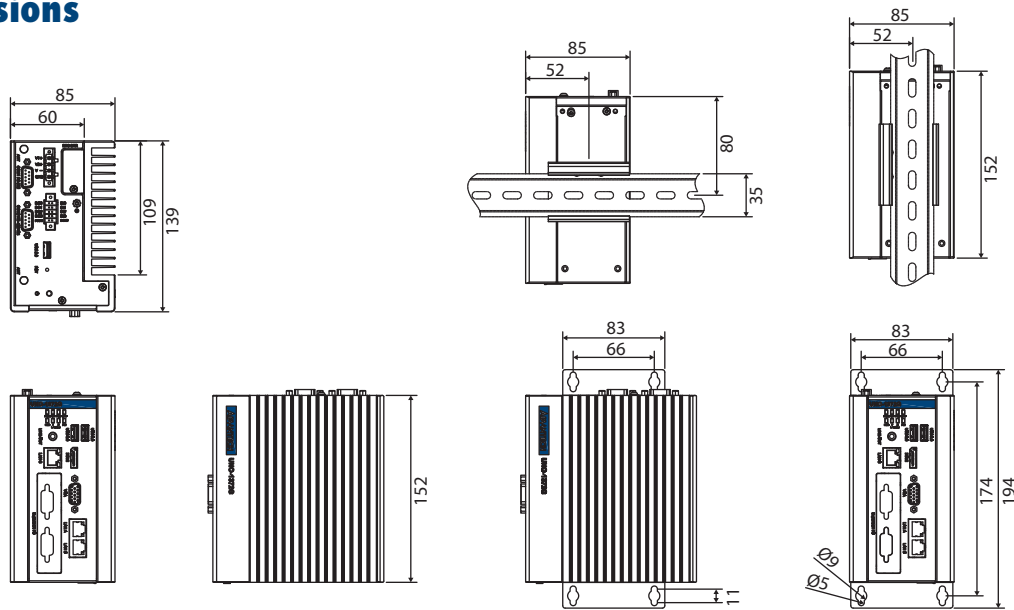## Installation Scenario

DIN-Rail mounting illustration
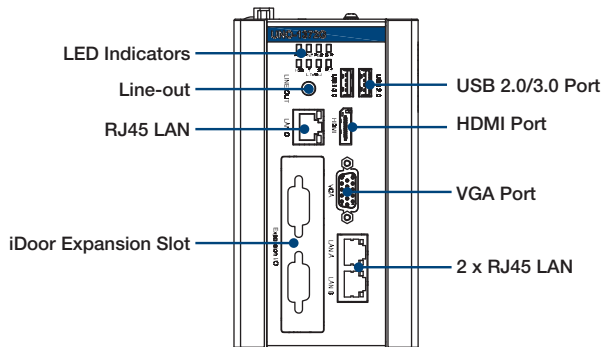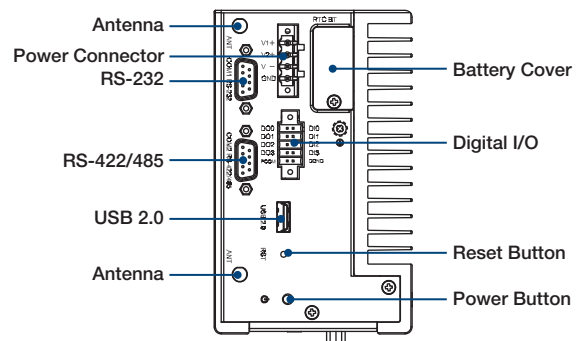

Wall mounting illustration

ADVANTECH | **Control Cabinet PCs**

All product specifications are subject to change without notice

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-1372G-E3AE**   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-AE**   WiFi 802.11 a/b/g/n 2T2R w/ Bluetooth4.0, Half-size mPCIe, 2-port SMA
- **PCM-24S23G-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)

Embedded O/S

- **2070014384**   Image Win10 LTSB X64 MUI for UNO-1372G
- **2070013467**   Image WES7P X64 MUI. for UNO-1372G
- **2070013468**   Image Linux for UNO-1372G

S/W Bundle Offering

- **WA-CU1372G-ERHE5AE**   UNO-1372G-E3AE, Control RTE & Visua., 128G SSD, 2MB MRAM, WES7P