

# UNO-1150/E UNO-1150G/GE

**AMD Geode™ GX DIN-rail PC  
with 2 x LAN, 3 x COM, PCI-104**

**AMD Geode™ LX DIN-rail PC  
with 2 x LAN, 3 x COM, PCI-104**

**NEW**



UNO-1150/G

UNO-1150E/GE



## Features

- Onboard AMD Geode GX/LX (400/500 MHz) CPU
- One RS-232 and two RS-232/422/485 ports with automatic flow control.
- Two 10/100 Base-T RJ-45 ports
- Two USB, audio and internal CompactFlash®
- Compact size, small foot print, saves space and front accessible for easy wiring
- DIN-rail design for easy installation in field cabinet
- Wide operating temperature range
- Windows® CE 6.0, Windows XP Embedded, and Linux ready solution
- Onboard system & I/O LED indicators
- Fanless desing with no internal cabling
- Isolation between chassis and power ground

## Introduction

UNO-1150 is an DIN-rail Mounted, which provides several serial communication ports and Ethernet interfaces, with a compact size, small foot print, and help to saves space and its front accessible is very convenient for wiring and DIN-rail design for easy installation in field cabinet. With rich OS and driver supports, such as Windows XP embedded, WinCE 6.0, and even embedded Linux. You can integrate your applications easily with an application ready platform that can provide a versatile function to fulfill diverse requirements.

## Specifications

### General

- Certification** CE, FCC Class A, UL, CCC
- Dimension (W x H x D)**
  - 81 x 155 x 140 mm (3.1" x 6.1" x 5.6") (UNO-1150)
  - 109 x 155 x 140 mm (4.3" x 6.1" x 5.6") (UNO-1150E)
  - 71 x 155 x 140 mm (2.8" x 6.1" x 5.6") (UNO-1150G)
  - 97 x 155 x 140 mm (3.8" x 6.1" x 5.6") (UNO-1150GE)
- Enclosure** Aluminum + SECC
- Mounting** DIN-rail, Wallmount
- Power Consumption** 15 W (Typical)
- Power Requirement** 9 ~ 36 V<sub>DC</sub> (e.g. +24 V @ 1 A) (Min. 24 W), AT
- Weight** 1.6 KG (for UNO-1150)  
2.0 KG (for UNO-1150E)
- OS Support** WES Windows XP Embedded, Windows 2000 & XP,  
Windows CE 5.0/6.0, Linux
- System Design** Fanless with no internal cabling
- Remote Management** Built-in Advantech DiagAnywhere agent on Windows CE / XPe

### System Hardware

- CPU** UNO-1150/E: AMD Geode GX 533 (400 MHz)  
UNO-1150G/GE: AMD Geode LX 800 (500MHz)
- Memory** Onboard 256 MB DDR SDRAM
- Indicators** LEDs for Power, IDE, LAN (Active, Status) and Serial (Tx, Rx)  
Buzzer for Diagnosis (programmable)
- Keyboard/Mouse** 1 x PS/2
- Storage** SSD: 1 x internal type I/II CompactFlash® slot  
HDD: 2.5" SATA HDD bracket (UNO-1150E/GE)  
2x PCI-104 slot, supports 3.3 V & +5 V  
(Only for UNO-1150E/1150GE, one PCI-104 left while using HDD)
- PC/104 Slot**
- Mini PCI** 1x MiniPCI (UNO-1150E/GE only)
- Display** DB15 VGA connector, supports up to 1024 x 768 @ 60 Hz
- Audio** Line in, Line out
- Watchdog Timer** Programmable 256 levels timer interval, from 1 to 255 sec

### I/O Interface

- Serial Ports** 1 x RS-232, 2 x RS-232/422/485 with DB9 connectors, Automatic RS-485 data flow control  
RS-232/422/485 ports support hardware 128 byte FIFO  
RS-232 port: 50 ~ 115.2 kbps  
RS-232/422/485 port: RS-232, 300 ~ 115.2 kbps  
RS-232/422/485 port: RS-422/485, 300 ~ 921.6 kbps (Max)
- LAN** 2 x 10/100 Base-T RJ-45 ports
- USB** 2 x USB, OpenHCI, Rev. 1.1 compliant

### Environment

- Operating Temperature** (IEC 60068-2-2, 100% CPU/ I/O loading)  
-10 ~ 60° C (14 ~ 140° F)  
-20 ~ 80° C (-4 ~ 176° F)
- Storage Temperature** -20 ~ 80° C (-4 ~ 176° F)
- Operating Humidity** 20 ~ 95% (non-condensing)
- Storage Humidity** 0 ~ 95% (non-condensing)
- Shock Protection** IEC 68 2-27  
CompactFlash®: 50 G @ wall mount, half sine, 11 ms  
HDD: 20 G @ wall mount, half sine, 11 ms  
(Only for UNO-1150E/GE)
- Vibration Protection** IEC 68 2-64 (Random 1 Oct./min, 1hr/axis.)  
CompactFlash®: 2 Grms @ 5 ~ 500 Hz  
HDD: 1Grms@ 5 ~ 500 Hz (UNO-1150E/GE)

## Ordering Information

- UNO-1150-G20E** GX 400 MHz, 256 MB RAM DIN-rail PC
- UNO-1150E-G20E** GX 400 MHz, 256 MB, DIN-rail PC w/PCI-104
- UNO-1150G-G30E** LX 500 MHz, 256 MB DIN-rail PC
- UNO-1150GE-G30E** LX 500 MHz, 256 MB DIN-rail PC w/PCI-104

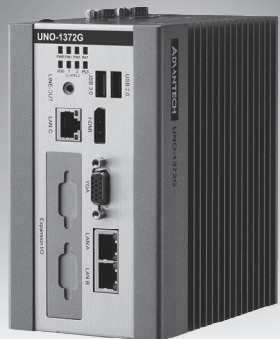
### Accessories

- UNO-FPM11-BE** UNO-1100 Series VESA Mount kit
- PCLS-DIAGAW10** Advantech Remote Monitoring & Diagnosis Utility
- UNO-ANT11-AE** Antenna kit for UNO-1100 Series

# 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**

**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, 2 x mPCIe, 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** 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** 9~36Vdc (Recommend 12/24 Vdc)
- **Power Consumption** 24W (Typical), 50W (Max)
- **OS Support** Microsoft® Windows 7/8/10, WES7, AdvLinux

### 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
- **System Chip** Integrated Intel SoC Chipset
- **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
- **LED Indicators** LEDs for Power, battery, LAN (Active, Status), COM (Tx/Rx),  
HDD and programmer LED
- **Storage** 1 x mSATA  
One drive bay for SATA 2.5" HDD (Compatible with 9.5mm height HDD)
- **Expansion** 2 x Full-size mPCIe slot

### I/O Interfaces

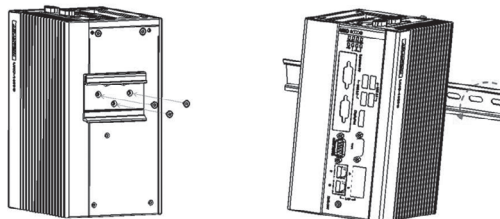
- **Serial Ports** 1 x RS-232, DB9, 50~115.2kbps  
1 x RS-422/485, DB9, auto flow control, 50~115.2kbps
- **LAN Ports** 3 x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000BASE-T Fast Ethernet
- **USB Ports** 3 x USB Ports (2 x USB2.0, 1 x USB 3.0)
- **Isolated DIO** 4-ch digital input, 4-ch digital output (2500 Vdc)
- **Displays** 1 x VGA, supports 1920 x 1080 @ 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

### Environment

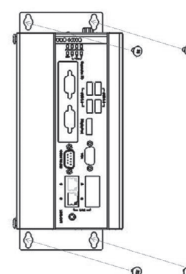
- **Operating Temperature** - 20 ~ 60°C (-4 ~ 140°F) @ 5 ~ 85% RH with 0.7m/s airflow (Industry SSD)
- **Storage Temperature** - 40 ~ 85°C (-40 ~ 185°F)
- **Relative Humidity** 95% RH @ 40°C, non-condensing
- **Shock Protection** Operating, IEC 60068-2-27, 50G, half sine, 11ms
- **Vibration Protection**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

## Installation Scenario

### DIN-rail mounting illustration

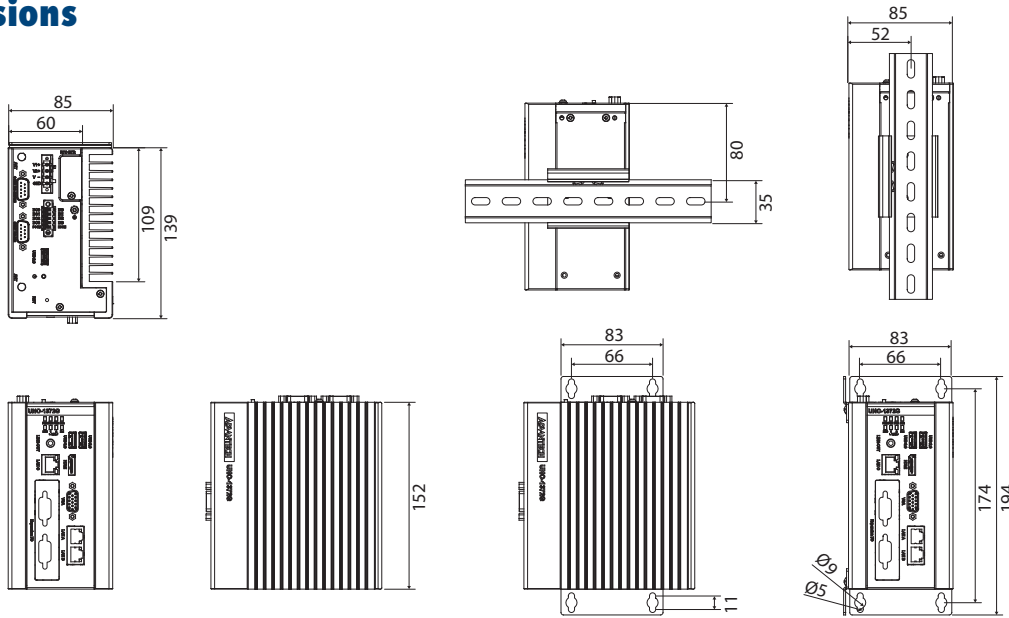


### Wall mounting illustration

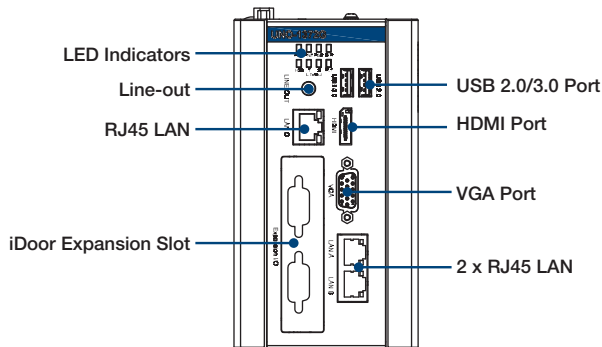


## Dimensions

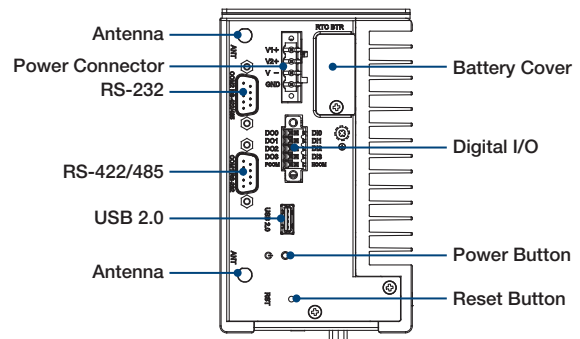
Unit: mm



## Front I/O View



## Top I/O View



## Ordering Information

- **UNO-1372G-E3AE** Intel Atom Quad-Core 1.91GHz, 4GB, 3 x LAN, 2 mPCIe, iDoor

## iDoor Modules

- **PCM-23C1CF-BE** 1 CFast Slot with Cover Protection
- **PCM-23U1DG-BE** 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-BE** 2-Port Isolated RS-422/485 mPCIe, DB9
- **PCM-24D4R4-BE** 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)

## Embedded O/S

- **2070014956** Image Win10 Enterprise 2016 LTSB X64 MUI for UNO-1372G
- **2070014549** Image AdvLinuxTU for UNO-1372G
- **20703WE7PS0010** Img WS7P X64 MUI V4.18 B024 for UNO-1372G
- **20703WE7PS0011** Img WS7P X86 MUI V4.18 B021 for UNO-1372G
- **20703WC70S0037** Img WEC7 MUI V4.02 B117 for UNO-1372G