UNO-1150GH
UNO-1150GHE

Class I, Division 2 Certified AMD Geode™ LX
DIN-rail PC with 2 x LAN, 3 x COM

Class I, Division 2 Certified AMD Geode™ LX
DIN-rail PC with 2 x LAN, 3 x COM, PCI-104

NEW

UNO-1150GH   UNO-1150GHE

Features

- UL listed for Hazardous Locations: Class 1, Division 2
- Onboard AMD Geode LX800 (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 5.0/6.0, Windows XP Embedded, and Linux ready solution
- Fanless desing with no internal cabling
- Isolation between chassis and power ground

Introduction

In hazardous locations, devices are under potential danger from flammable gases, combustible dust, or ignitable fibers, creating the potential for fire and explosions. UNO-1150GH and UNO-1150GHE are 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 & T3A certification. UNO-1150GH and UNO-1150GHE are DIN-rail mounted and provide several serial communication ports and Ethernet interfaces with a compact size to save space. They are also front accessible for easy installation in field cabinets.

Specifications

General

- **Certification** — CE, FCC Class A, UL, CCC
- **Hazardous Locations** — US: ANSI/ISA 12.12.01-2007 cUL: CSA 22.2 No. 213 M1987, Class I, Division 2, Groups A,B,C,D, Hazardous Location, Temperature code: T3A, Ambient Temperature Range: -10°C ≤ T_{amb} ≤ 60°C
- **Dimension (W x H x D)** — UNO-1150GH: 71 x 152 x 139 mm (2.8" x 6" x 5.5")
  UNO-1150GHE: 96.5 x 152 x 139 mm (3.8" x 6" x 5.5")
- **Enclosure** — Aluminum + SECC
- **Mounting** — DIN-rail, Wallmount
- **Power Consumption** — 15 W (Typical)
- **Power Requirement** — 9 (Min.) ~ 36 (Max.) V_{DC} (e.g +24 V @ 1 A) (Min. 24 W), AT
- **Weight** — UNO-1150GH: 1.6 kg
  UNO-1150GHE: 2.0 kg
- **OS Support** — WES Windows XP Embedded, Windows 2000 & XP, Windows CE 5.0/6.0, Linux QNX
- **System Design** — Fanless with no internal cabling
- **Remote Management** — Built-in Advantech DiagAnywhere agent on Windows CE / XPe

System Hardware

- **CPU** — 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-1150GHE)
- **PC/104 Slot** — 2x PCI-104 slot, supports 3.3 V & +5 V (Only UNO-11150GHE, one PCI-104 while using HDD)
- **Mini PCI** — 1x MiniPCI (UNO-1150GHE only)
- **Display** — DB15 VGA connector, supports up to 1024 x 768 @ 60 Hz
- **Audio** — Line in, Line out
- **Watchdog Timer** — Programmable 256 level timer interval, 1 to 255 sec

I/O Interface

- **Serial Ports** — 2 x RS-232 (one pin header reserved), 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
- **Serial Port Speed** — 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
- **Printer Port** — 1 x Printer Port pin head

*Note: This function is optional for project request

Environment

- **Ingress Protection** — IP40
- **Operating Temperature** — (IEC 60068-2-2, 100% CPU/ I/O loading)
  -10 ~ 60°C (14 ~ 140°F)
- **Storage Temperature** — -20 ~ 80°C (-4 ~ 176°F)
- **Operating Humidity** — 20 ~ 95% (non-condensing)
- **Storage Humidity** — 0 ~ 95% (non-condensing)
- **Shock Protection** — IEC 60068- 2-27
  CompactFlash®: 50 G @ wall mount, half sine, 11 ms
  HDD: 20 G @ wall mount, half sine, 11 ms (Only for UNO-1150GHE)
- **Vibration Protection** — IEC 60068- 2-64 (Random 1 Oct./min, 1hr/axis.)
  CompactFlash®: 2 Grms @ 5 ~ 500 Hz
  HDD: 1Grms@ 5 ~ 500 Hz (UNO-1150GHE)

Ordering Information

- **UNO-1150GH-G30E** — CID2 LX800 500 MHz, 256 MB DIN-rail PC
- **UNO-1150GHE-G30E** — CID2 LX800 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