UNO-1100H Series

Class I, Division 2 Certified DIN-rail PCs for Hazardous Locations

NEW

Features

- Class I, Division 2 certification
- Compact size, small footprint and front accessible for easy wiring
- DIN-rail design for control cabinets
- Fanless design without internal cabling
- Isolation between chassis and system
- Wide operating temperature range
- Onboard system and LED indicators
- Flexible expansion (PC/104 expansion, Mini PCI and Mini PCIe)
- Build-in Advantech remote management SW (DiagAnywhere)
- Windows® XP/XPe, Windows CE 5.0 & 6.0, Windows 7, Linux support

Introduction

Hazardous locations are areas where fire or explosions may occur in normal or abnormal conditions because of the presence of flammable substances (e.g. gas, vapors, liquids, dust, fibers). Ignition sources, oxidizers and flammable substance are three basic and essential elements of an explosion. Any electrical apparatus installed in such location must be designed and tested to ensure that it can't initiate a fire or an explosion due to its hot surface, failure, arcs or impact sparks. Advantech's UNO-1100 H series are certified to be used on the Class I Division 2 Groups A, B, C and D Hazardous Locations. This series provides safe and reliable controllers to be operated in hazardous locations. The proof of the certification extends UNO-1100H series to many Oil and Gas applications including: Liquefied Natural Gas, Onshore/Offshore Drilling Production, Pipelines, and Refining. With enhanced design and reliability for hazards, UNO-1100H series not only reduces the disaster cost, but also ensures the constant operation and safety in hazardous locations.

Certified Standards

- US: ANSI/ISA 12.12.01-2007, Non-incentive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations.
- Canada: CSA C22.2 No. 213-M1987, Non-incentive Control Equipment for Use in Class I, Division 2 Hazardous Locations.

UNO-1100H Series Product Offering

Model Name	UNO-1140FH	UNO-1150GH/GHE	UNO-1172AH/AHE
CPU	Advantech EVA-X4150 SoC,486SX grade, 150MHz	AMD Geode LX800, 500 MHz	Intel Atom D510, 1.66 GHz
Onboard RAM	64M Industrial SDRAM	256M DDR SDRAM	2GB DDR2 SDRAM
Battery-Backup SRAM	-	-	1 MB
Display	VGA	VGA	VGA
Auto	-	Yes	Yes
Serial Ports	4 x Iso. RS-232/485 4 x Iso. RS-485	2 x RS-232 (one pin header reserved) 2 x RS-232/422/485	2 x RS-232/422/485 2 x RS-232 (pin header)
Ethernet Ports	1 x 10/100Base-T	2 x 10/100Base-T	3 x 10/100/1000Base-T
USB Ports	Two	Two	Four
Expansion	PC/104 (reserved)	UNO-1150GH: N/A UNO-1150GHE: 2 x PCI-104, 1 x Mini PCI	UNO-1172AH: 1 x Mini PCIe UNO-1172AHE: 2 x PC/104+, 1 x Mini PCI, 1 x Mini PCIe
Compact Flash Slots	One internal	One internal	One internal
Power Input Range*	10 (Min.) ~ 30 V$_{DC}$ (Max.)	9 (Min.) ~ 36 V$_{DC}$ (Max.)	9 (Min.) ~ 36 V$_{DC}$ (Max.)
Operating Temperature	-20 ~75° C (-4 ~ 167° F)	-10 ~ 60° C (14 ~ 140° F)	- 10 ~ 65° C (14 ~ 149° F)
Dimension	71 x 152 x 139 mm (2.8" x 6" x 5.5")	71 x 152 x 139 mm (2.8" x 6" x 5.5")/ 96.5 x 152 x 139 mm (3.8" x 6" x 5.5")	85.5 x 152 x 139 mm (3.4" x 6" x 5.5")/ 111 x 152 x 139 mm (4.4" x 6" x 5.5")
Certification	Class I Division 2 Group ABCD T4	Class I Division 2 Group ABCD T4	Class I Division 2 Group ABCD T4
Order Information	UNO-1140FH-V10E	UNO-1150GH-G30E UNO-1150GHE-G30E	UNO-1172AH-A33E UNO-1172AHE-A33E

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