# UNO-1172AH

Class I, Division 2 Certified Intel® Atom™ D510 DIN-rail PC with 3 x LAN. 2 x COM. VGA. Mini-PCle



### **Features**

- UL listed for Hazardous Locations: Class I, Division 2
- Onboard Intel® Atom D510 1.67GHz
- Onboard 1 MB battery-backup SRAM
- System diagnosis through led and digital output, remote power control through digital input
- Two RS-232/422/485 ports with automatic flow control
- Three 10/100/1000 Base-T RJ-45 ports with teaming function support
- 4 x external USB
- PC/104+ expansion slots option
- 1 x Mini-PCle slot for WLAN card and Fieldbus card
- Windows 7. Windows CE, XP Embedded and Linux support
- Fanless design 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-1172AH 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 & T5 certification. The UNO-1172AH is an Intel Atom DIN-rail PC which features an innovative system diagnosis feature for automation applications. They provide alarms for over temperature, over voltage, battery power fail, power status on both system onboard LED and Digital output. They also include remote power control through digital input. These system diagnosis features enable control and monitoring of system status remotely. Three Gigabit Ethernet interfaces with teaming function support allow users to uplink two ports with data transmission fault tolerance and downlink one port to field device.

# **Specifications**

#### General

Certification

Hazardous Locations

Dimension (W x H x D)

Mounting

Power Consumption

Power Requirement

Weight

OS Support

System Design

Remote Management

#### **System Hardware**

CPU

Memory

**Battery Backup SRAM** 

Keyboard/Mouse

Storage

Display

Audio **Watchdog Timer** 

Mini-PCle

CE, FCC Class A, UL, CCC

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: T5, Ambient Temperature Range: -10°C ≤

UNO-1172AH: 85 x 152 x 139 mm (3.4" x 6"x 5.5")

Enclosure Aluminum + SECC

DIN-rail, Wallmount

24 W (Typical)

9 (Min.) ~ 36 (Max.) V<sub>DC</sub> (e.g +24 V @ 2 A) (Min. 48 W), AT/ ATX power mode by Jumper selection and BIOS AT simulation (support system reboot automatically after power recovery) ÌINO-1172AH: 1 6 KG

WES Windows XP Embedded, Windows XP & Windows 7,

Windows CE 6.0, Linux, QNX

Fanless design with no internal cabling

Built-in Advantech DiagAnywhere agent on Windows CE / XPe

Atom D510 1.67GHz 2GB DDR2 SDRAM built-in

System:LEDs for Power, CF, LAN (Active, Status), Serial (Tx, Rx), Diagnosis /Alarm: over system temperature, over voltage, alarm for battery backup SRAM, alarm for RTC battery, Programmable (while disable Serial Tx&Rx), Buzzer for Diagnosis (programmable)

1 x PS/2

SSD: 1 x internal type I/II CompactFlash slot HDD: one 2.5" SATA HDD bracket DB15 VGA connector, 1600x1200 @ 85 Hz

5.1 channel HD Audio, Mic in, Line in, Line out Programmable 256 levels timer interval, from 1 to 255 sec

1x PCI express mini card slot

#### I/O Interface

Serial Ports

Serial Port Speed

LAN

USB

Digital Output

System Diagnoses

3 x 10/100/1000 Base-T RJ-45 ports (supports Wake on LAN, Teaming, built-in boot ROM, and IEEE1588 hardware support) 4 x USB, EHCI, Rev. 2.0 compliant 8-ch DO- 200 mA max/channel sink current - Keep output status after system hot reset

2x RS-232 (Optional, pin header)

RS-232: 50 ~ 115.2 kbps RS-422/485: 50 ~ 115.2 kbps (Max)

data flow control

5 ~ 40 V<sub>DC</sub> output range and 10 kHz speed Output: over system temperature, over voltage, battery power fail, power status

2 x RS-232/422/485 with DB9 connectors, Automatic RS-485

Input: Power On/Off, Reset

#### **Environment**

**Ingress Protection** 

**Operating Temperature** 

Storage Temperature **Operating Humidity** 

Storage Humidity Shock Protection

Vibration Protection

(IEC 60068-2-2, 100% CPU/ I/O loading) -10 ~ 65°C (-4 ~ 149°F) -20 ~ 80°C (-4 ~ 176°F)

20 ~ 95% (non-condensing) 0 ~ 95% (non-condensing) IEC 60068- 2-27

CompactFlash: 50 G @ wall mount, half sine, 11 ms HDD: 20 G @ wall mount, half sine, 11 ms IEC 60068- 2-64 (Random 1 Oct./min, 1hr/axis.)

CompactFlash: 2 Grms @ 5 ~ 500 Hz, HDD: 1 Grms @ 5 ~ 500 Hz

# **Ordering Information**

UNO-1172AH-A33E Accessories

■ UNO-FPM11-BE

PCLS-DIAGAW10

CID2 Atom D510 1.67GHz, 2GB RAM DIN-rail PC

UNO-1100 Series VESA Mount Kit

Advantech Remote Monitoring & Diagnosis Utility