UNO-1172A/AE

Intel® Atom™ D510 DIN-rail PCs with 3 x LAN, 2 x COM, VGA, Mini PCIe. PC/104+



Features

- Onboard Intel Atom D510 1.66 GHz processor
- Onboard 1 MB battery-backup SRAM
- Onboard system & I/O LED indicators
- System diagnosis through LED and digital output, remote power control through digital input
- 2 x RS-232/422/485 ports with automatic flow control
- 3 x 10/100/1000Base-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
- Supports Boot from LAN function
- Fanless design with no internal cabling
- Isolation between chassis and power ground









Introduction

UNO-1172A/AE are Intel Atom DIN-rail PCs with innovative system diagnostic features. The system diagnosis and remote power control through digital input lines enable users to control and monitor system status remotely. They also provide alarm notices including over temperature, over voltage, battery power fail, power status on both system onboard LED and digital output. Three Gigabit Ethernet interfaces with teaming function support allow users to uplink two ports with data transmit fault tolerance and downlink one port to field devices. Their compact size, small foot print, front accessible I/Os allow convenient wiring and easy installation in field cabinets as well.

Specifications

General

Certification

Dimension (W x H x D)

Enclosure Mounting

Power Consumption Power Requirement

Weight OS Support

System Design

Remote Management

CF FCC Class A LIL CCC

UNO-1172A: 85.5 x 152 x 139 mm (3.4" x 6.0" x 5.5") UNO-1172AE: 111 x 152 x 139 mm (4.4" x 6.0" x 5.5")

Aluminum + SECC DIN-rail, Wallmount 24 W (Typical)

10 ~ 36 V_{DC} (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) ÙNO-1172A: 1.6 ka

UNO-1172AE: 2.0 kg

WES Windows XP Embedded, Windows XP & Windows 7, Windows CE 5.0/6.0, Linux, QNX

Fanless design with no internal cabling Built-in Advantech DiagAnywhere agent on Windows CE /

XPe

System Hardware

CPU Memory

Battery Backup SRAM

Indicators

(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)

Keyboard/Mouse

Storage

PC/104 Slot

Mini PCI Display

Audio **Watchdog Timer** Intel Atom D510 1.66 GHz 2 GB DDR2 SDRAM built-in

System: LEDs for Power, CF, LAN (Active, Status), Serial

SSD: 1 x internal type I/II CompactFlash slot HDD: one 2.5" SATA HDD bracket 2 x PC/104+ slot, supports 3.3 V & +5 V

(Only for UNO-1172AE, one PC/104+ with HDD) 1 x Mini PCI (UNO-1172AE) DB15 VGA connector, 1600 x 1200 @ 85 Hz

5.1 channel HD Audio, Mic in, Line in, Line out Programmable 7-tier event handler, from 1 to 255 seconds

for each tier Mini PCle 1 x Mini PCle

I/O Interface

Serial Ports

2 x RS-232/422/485 with DB9 connectors, automatic RS-485 data flow control 2 x RS-232 (Optional, pin header)

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

LAN 3 x 10/100/1000Base-T RJ-45 ports (supports Wake on LAN, built-in boot ROM)

IISR 4 x USB, EHCI, Rev. 2.0 compliant Digital Input 2-ch. wet/dry contact, 70 V_{DC} over-voltage protection, 0 ~

50 V_{DC} input range and Interrupt handling

 Digital Output 6-ch DO- 200 mA max/channel sink current - Keep output status after system hot reset - 5 ~ 40 V_{DC} output range and 10 kHz speed

 System Diagnoses Remote monitoring: over system temperature, over voltage, battery power fail, power status Remote control: 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 (14~ 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-1172A-A33E

Intel Atom D510 1.66 GHz, 2 GB RAM DIN-rail PC UNO-1172AE-A33E Intel Atom D510 1.66 GHz, 2 GB RAM DIN-rail PC w/ PC/104+

Accessories

UNO-FPM11-BE

UNO-1100 Series VESA Mount Kit

PCLS-DIAGAW10 Advantech Remote Monitoring & Diagnosis Utility