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

The 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

Dimensions (W x H x D)

Enclosure Mounting

Power Consumption

Power Requirement

OS Support

Weight

System Design

Remote Management

CE, FCC Class A, UL, 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) UNO-1172A: 1.6 kg

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 /

System Hardware

CPU

Memory

Battery Backup SRAM

Indicators

voltage, alarm for battery backup SRAM, alarm for RTC battery, Programmable (while disable Serial Tx&Rx), Buzzer

Keyboard/Mouse

Storage

PC/104 Slot

Mini PCI Display

Audio

Watchdog Timer

Mini PCle

Intel Atom D510 1.66 GHz

2 GB DDR2 SDRAM built-in

1 MB

System: LEDs for Power, CF, LAN (Active, Status), Serial (Tx, Rx), Diagnosis /Alarm: over system temperature, over for Diagnosis (programmable)

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

1 x Mini PCle

I/O Interface

Serial Ports

Serial Port Speed

LAN

USB

Digital Input

Digital Output

System Diagnoses

2 x RS-232/422/485 with DB9 connectors, automatic RS-485 data flow control

2 x RS-232 (Optional, pin header) RS-232: 50 ~ 115.2 kbps

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

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

4 x USB, EHCI, Rev. 2.0 compliant

2-ch. wet/dry contact, 70 V_{DC} over-voltage protection, 0 ~

50 V_{DC} input range and Interrupt handling 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

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**

(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)

CompactFlash: 50 G @ wall mount, half sine, 11 ms

HDD: 20 G @ wall mount, half sine, 11 ms Vibration Protection 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 UNO-1172AE-A33E

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

Accessories

UNO-FPM11-BE PCLS-DIAGAW10 UNO-1100 Series VESA Mount Kit

Advantech Remote Monitoring & Diagnosis Utility