# UNO-1172A/AE

Intel<sup>®</sup> Atom<sup>™</sup> 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
- 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 PCIe slot for WLAN card and Fieldbus card
- Windows<sup>®</sup> 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 innovated 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

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<ul> <li>Certification</li> <li>Dimension (W x H x D)</li> </ul>	CE, FCC Class A, UL, CCC UNO-1172A: 85.5 x 152 x 139 mm (3.4" x 6" x 5.5") UNO-1172AE: 111 x 152 x 139 mm (4.4" x 6" x 5.5")	
Enclosure	Aluminum + SECC	
Mounting	DIN-rail, Wallmount	
<ul> <li>Power Consumption</li> </ul>	24 W (Typical)	
<ul> <li>Power Requirement</li> </ul>	$10 \sim 36 V_{00}$ (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)	
<ul> <li>Weight</li> </ul>	UNO-1172A: 1.6 kg UNO-1172AE: 2.0 kg	
<ul> <li>OS Support</li> </ul>	WES Windows XP Embedded, Windows XP & Windows 7, Windows CE 5.0/6.0, Linux, QNX	
System Design	Fanless design with no internal cabling	
<ul> <li>Remote Management</li> </ul>	Built-in Advantech DiagAnywhere agent on Windows CE / XPe	
System Hardware		
= CPU	Intel Atom D510 1.66GHz	
Memory	2GB DDR2 SDRAM built-in	
Battery Backup SRAM	1 MB	
<ul> <li>Indicators</li> </ul>	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)	
Keyboard/Mouse	1 x PS/2	
<ul> <li>Storage</li> </ul>	SSD: 1 x internal type I/II CompactFlash slot HDD: one 2.5" SATA HDD bracket	
PC/104 Slot	2 x PC/104+ slot, supports 3.3 V & +5 V	
	(Only for UNO-1172AE, one PC/104+ with HDD)	
Mini PCI	1 x Mini PCI (UNO-1172AE)	
<ul> <li>Display</li> </ul>	DB15 VGA connector, 1600x1200 @ 85 Hz	
= Audio	5.1 channel HD Audio, Mic in, Line in, Line out	
<ul> <li>Watchdog Timer</li> </ul>	Programmable 7-tier event handler, from 1 to 255 seconds	
- watendog IIIIGI	for each tier	
<ul> <li>Mini PCIe</li> </ul>	1 x Mini PCIe	

#### I/O Interface

1	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)
1	LAN	3 x 10/100/1000 Base-T RJ-45 ports (supports Wake on LAN, Teaming, built-in boot ROM, and IEEE1588 hardware support)
ı.	USB	4 x USB, EHCI, Rev. 2.0 compliant
I	Digital Output	8-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
1	System Diagnoses	Output: over system temperature, over voltage, battery power fail, power status Input: Power On/Off, Reset
I	nvironment	
	Operating Temperature	(IEC 60068-2-2, 100% CPU/ I/O loading) -10 ~ 65° C (-4 ~ 149° F)

-20 ~ 80° C (-4 ~ 176° F)

IFC 60068-2-27

20~95% (non-condensing) 0 ~ 95% (non-condensing)

- Storage Temperature Operating Humidity
- Storage Humidity
- Shock Protection
- - 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
- Atom D510 1.66GHz, 2GB RAM DIN-rail PC w/ PC/104+ UNO-1172AE-A33E
- Accessories
- UNO-FPM11-BE
- PCLS-DIAGAW10
- UNO-1100 Series VESA Mount Kit Advantech Remote Monitoring & Diagnosis Utility

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