# UNO-1170A/AE

Intel® Atom™ N270 DIN-rail PCs with 2 x LAN, 3 x COM, 4 x USB, PC/104+



### **Features**

- Onboard Intel Atom N270 1.6 GHz processor
- Onboard 512 KB battery-backup SRAM
- Onboard system & I/O LED indicators
- 2 x RS-232 and 1 x RS-232/422/485 ports with automatic flow control
- 2 x 10/100Base-T RJ-45 ports
- 3 x external USB and 1 x internal USB for dongle and flash drive
- PC/104+ expansion slots option
- DIN-rail design for easy installation in field cabinet
- Windows® CE 6.0, Windows WES 2009, and Linux ready solution
- Supports boot from LAN function
- Fanless design with no internal cabling
- Isolation between chassis and power ground

## Introduction

The UNO-1170A/AE are DIN-rail PCs that provide several serial communication ports and Ethernet interfaces. With their compact size, small footprint, and front accessibility, the UNO-1170A/AE are convenient for wiring and easy to install in field cabinets. With rich OS and driver supports, such as Windows WES 2009, WinCE 6.0, and even embedded Linux, the UNO-1170A/AE are application-ready platforms that provide versatile functionality.

## **Specifications**

#### General

Certification
CE, FCC Class A, UL, CCC

**Dimensions (W x H x D)** UNO-1170A: 85.5 x 152 x 139 mm (3.4" x 6.0" x 5.5")

UNO-1170AE: 111 x 152 x 139 mm (4.4" x 6.0" x 5.5")

Enclosure Aluminum + SECC
Mounting DIN-rail, Wallmount
Power Consumption 24 W (Typical)

■ **Power Requirement** 10 ~ 36 V<sub>DC</sub> (e.g +24 V @ 2 A) (Min. 48 W), AT

 Weight UNO-1170A: 1.6 kg UNO-1170AE: 2.0 kg

• **OS Support** Windows WES 2009, Windows XP, Windows 7,

Windows CE 5.0/6.0, Linux, QNX Fanless with no internal cabling

• Remote Management Built-in Advantech DiagAnywhere agent on Windows

CE / WES 2009

#### **System Hardware**

- Mini PCI

System Design

CPU Intel Atom N270 1.6 GHz
Memory 1 GB DDR2 SDRAM Built-in

Battery Backup SRAM 512 K

Indicators
LEDs for Power, IDE, LAN (Active, Status), Serial

(Tx, Rx), Alarm for battery backup SRAM and diagnosis

(programmable)

Buzzer for Diagnosis (programmable)

Keyboard/Mouse 1 x PS/2

• **Storage** SSD: 1 x internal type I/II CompactFlash slot

HDD: one 2.5" SATA HDD bracket

■ **PC/104 Slot** 1 x PC/104+ slot, supports up to 2 x PC/104+ cards

(3.3V & 5V)

(Only for UNO-1170AE, one PC/104+ left while using

1 x Mini PCI (UNO-1170AE)

■ **Display** DB15 VGA connector, 1600 x 1200 @ 85 Hz

Audio Line in, Line out

All product specifications are subject to change without notice

• Watchdog Timer Programmable 256 level timer interval, from 1 to 255 sec

#### I/O Interface

• **Serial Ports** 2 x RS-232, 1 x RS-232/422/485 with DB9 connectors,

automatic RS-485 data flow control

1 x pin header RS-232

Serial Port Speed
RS-232: 50 ~ 115.2 kbps
RS-422/485: 50 ~ 921.6 kbps (Max)

■ LAN 2 x 10/100Base-T RJ-45 ports (Built-in boot ROM in

flash BIOS)

• **USB** 4 x USB, EHCl, Rev. 2.0 compliant (1 is for USB dongle

inside chassis)

#### **Environment**

Operating Temperature (IEC 60068-2-2, 100% CPU/ I/O loading)

-10 ~ 60°C (14 ~ 140°F)

• Storage Temperature  $-20 \sim 80^{\circ}\text{C} (-4 \sim 176^{\circ}\text{F})$ 

Ingress Protection IP40

**Shock Protection** IEC 60068-2-27

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

HDD: 20 G @ wall mount, half sine, 11 ms

(UNO-1170AE)

• Vibration Protection IEC 60068-2-64 (Random 1 Oct./min, 1hr/axis.)

 $\begin{array}{l} \mbox{CompactFlash} @: 2 \mbox{ Grms } @\: 5 \sim 500 \mbox{ Hz}, \\ \mbox{HDD: 1 Grms } @\: 5 \sim 500 \mbox{ Hz (UNO-1170AE)} \\ \end{array}$ 

## **Ordering Information**

UNO-1170A-A12E UNO-1170AE-A12E Intel Atom N270 1.6 GHz, 1 GB RAM DIN-rail PC Intel Atom N270 1.6 GHz, 1 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