UNO-2173A/AF

Intel® Atom™ Fanless Box PC with 1 x LAN, 2 x COM, Mini-PCIe



Features

- Onboard Intel® Atom™ 1.6 GHz
- 1 x 10/100/1000Base-T RJ-45 port
- 2 x USB 2.0 ports
- Windows® CE 5.0 & 6.0, Windows XP Embedded, and Linux ready solution
- Onboard system status LED indicators
- Front-accessible CF slot
- Supports Boot from LAN function
- 1 x Mini-PCIe slot for WLAN card
- Fanless design with no internal cabling
- Isolation between chassis and power ground
- Supports wide operating temperatures (up to 70° C)
- IP40 ingress protection

Introduction

UNO-2173A/AF is an Fanless Box PC that supports Mini-PCIe expansion, serial communication ports and several other networking interfaces. UNO-2173A/AF supports Windows XP Embedded OS and Windows CE 5.0 & 6.0, which offers a pre-configured image with optimized onboard device drivers. Windows XP Embedded delivers the power of the Windows operating system in componentized form. You can seamlessly integrate your applications into Windows XP Embedded and speed up your system development with an application ready platform that can provide a rich networking interface to fulfill diverse requirements.

Specifications

General

- **Certifications** Energy Star, CE, FCC class A, UL, CCC
- **Dimensions (W x D x H)** 255 x 152 x 59 mm (10" x 6.0" x 2.3")
- **Enclosure** Aluminum +SECC
- **Mounting** Wallmount, DIN-rail, VESA
- **Industrial Grounding** Isolation between chassis and power ground
- **Power Consumption** 15 W (Typical)
- **Power Requirements** 9 ~ 36 V_{DC} (e.g +24 V @ 1.5 A) (Min. 36 W), ATX
- **Weight** 2.5 kg
- **OS Support** Windows XP Embedded, Windows XP, Windows CE 5.0 & 6.0, Linux
- **System Design** Fanless design with no internal cabling

System Hardware

- **CPU** Intel Atom 1.6 GHz (N270)
- **Memory** 1GB DDR2 SDRAM built-in
- **Indicators** LEDs for Power, CF, LAN (Active, Status), Serial (Tx, Rx)
- **Keyboard/Mouse** 1 x PS/2
- **Storage** CF: 1 x front-accessible type I/II CompactFlash® slot HDD: 1 x built-in 2.5" SATA HDD/SSD bracket
- **Display** DB15 VGA connector, 1600 x 1200 @ 85 Hz
- **Watchdog Timer** Programmable 256 levels timer interval, from 1 to 255 sec
- **Expansion Slot** 1 x Mini-PCIe

I/O Interface

- **Serial Ports** 2 x RS-232
- **Serial Port Speed** 50 ~ 115.2 kbps
- **LAN** 1 x 10/100/1000 Base-T RJ-45 port (Built-in boot ROM in flash BIOS)
- **USB Ports** 2 x USB 2.0

Environment

- **Humidity** 95% @ 40° C (non-condensing)
- **Operating Temperature** IEC 68 2-2 with 100% CPU/ I/O loading -20 ~ 70° C (-4 ~ 158° F)
- **Ingress Protection** IP40
- **Shock Protection** IEC 68 2-27 CompactFlash: 50 G @ wall mount, half sine, 11 ms HDD: 20 G @ wall mount, half sine, 11 ms
- **Vibration Protection** IEC 68 2-64 (Random 1 Oct./min, 1hr/axis.) CompactFlash: 5 Grms @ 5 ~ 500 Hz, HDD: 1 Grms @ 5 ~ 500 Hz

Rear I/O (UNO-2173AF Only)

- **Display** LVDS with backlight control
- **USB Ports** 2 x USB 2.0 ports
- **Audio** 5.1 channel HD audio
- **LAN** 1 x 10/100/1000 Base-T RJ-45 port
- **Serial Ports** 1 x RS-422/485 serial port
- **Serial Port Speed** 50 ~ 115.2 kbps

Reserved Functions

- **Battery Backup SRAM*** 1MB
- **Printer Port*** 1 x printer port pin head

*Note: This function is reserved for projects

Ordering Information

- **UNO-2173A-A12E** Atom 1.6 GHz, 1GB RAM Fanless Box PC
- **UNO-2173AF-A12E** Atom 1.6 GHz, 1GB RAM Fanless Box PC w/ Rear I/O

Accessories

- **UNO-FPM21-AE** UNO-2000 series VESA mount kit
- **UNO-ANT20-AE*** UNO-2173A 802.11 b/g/n WLAN Antenna Kit

*Note: Antenna & Mini-PCIe Module not included