UNO-2172

Intel® Pentium® M/Celeron® M Fanless Box PC with 2 x GbE, 4 x COM, DVI



Features

- Onboard Pentium® M 1.6 GHz, Celeron® M 1.5 GHz or Celeron M 1.0 GHz
- Onboard 512 KB battery-backup SRAM
- 2 x RS-232 and two RS-232/422/485 ports with automatic flow control
- 2 x 10/100/1000Base-T Ethernet
- DVI-I supports dual display
- Audio with Mic in, Line in, Line out
- Two USB and one type I/II PC card
- PCI-104 expansion
- Windows® XP Embedded SP2 ready solution
- Supports SATA-1 HDD and external SATA 1.0 devices
- Onboard system status LED indicators
- Supports Wake on LAN and Boot from LAN function
- Fanless design with no internal cabling

Introduction

UNO-2172 is a high-performance Pentium grade controller that supports PCI-104 expansion, serial communication ports and several other networking interfaces. UNO-2172 supports Windows XP Embedded OS, 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** CE, FCC class A, UL, CCC
- **Dimensions (W x D x H)** 255 x 152 x 69 mm (10" x 6.0" x 2.7")
- **Enclosure** Aluminum
- **Mounting** Wallmount
- **Power Consumption** 45 W (Typical)
- **Power Requirements** Min. 48 W (9 ~ 36 V_{DC}) (e.g +24 V @ 2 A), ATX
- **Weight** 3 kg
- **OS Support** Windows XP Embedded, Windows 2000/XP, Linux

System Hardware

- **CPU** Pentium M 1.6 GHz, Celeron M 1.5 GHz
- **Memory** 1 GB DDR2 SDRAM
- **Indicators** LEDs for Power, IDE, Alarm for battery backup SRAM, LAN (Active, Status) and Serial (Tx, Rx)
- **Battery Backup SRAM** 512 KB
- **Keyboard/Mouse** 1 x PS/2
- **PC Card** 1 x PC Card slot, supports CardBus (Card-32) Card and 16-bit (PCMCIA 2.1/JEIDA4.2) card
  Supports +5 V, +3.3 V
- **PC/104 Slot** PCI-104 slot, supports +5 & 3.3 V Power
- **Storage** SSD: 1 x internal type I/II CompactFlash® slot
  HDD: Build-in one 2.5" SATA/IDE HDD bracket
- **Display** DVI-I supports DVI and VGA for dual display
- **Audio** Mic in, Line in, Line out
- **SATA** 1 x internal, 1 x external SATA 1.0
- **Watchdog Timer** Programmable 256 levels timer interval, from 1 to 255 sec

I/O Interface

- **Serial Ports** 2 x RS-232, 2 x RS-232/422/485 with DB9 connectors
  Automatic RS-485 data flow control
- **Serial Port Speed** RS-232: 50 ~ 115.2 kbps
  RS-422/485: 50 ~ 921.6 kbps (Max.)
- **LAN** 2 x 10/100/1000Base-T Ethernet (supports wake on LAN and built-in boot ROM in flash BIOS)
  RJ45 ports
- **USB Ports** 2 x USB, EHCI, Rev. 2.0 compliant

Environment

- **Humidity** 95% @ 40° C (non-condensing)
- **Operating Temperature** -20 ~ 50° C (-4 ~ 122° F) @ 5 ~ 85% RH. (for UNO-2172-C22E and UNO-2172-P22E)
  -20 ~ 60° C (-4 ~ 131° F) @ 5 ~ 85% RH. (for UNO-2172-C11E)
- **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: 2 Grms @ 5 ~ 500 Hz,
  HDD: 1 Grms @ 5 ~ 500 Hz

Ordering Information

- **UNO-2172-C22E** Celeron M 1.5 GHz, 1 GB RAM Fanless Box PC
- **UNO-2172-P22E** Pentium M 1.6 GHz, 1 GB RAM Fanless Box PC

Accessories

- **UNO-PCM22-AE** 2 x PC/104 expansion kit for UNO-2100 series
- **UNO-FPM21-AE** UNO-2000 series VESA mount kit