UNO-2172

Intel® Pentium® M/Celeron® M Automation Computer 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 10/100/1000 Base-T Ethernet ports
- 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
- Isolation between chassis and power ground

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
Industrial Grounding	Isolation between chassis and power ground
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	WES Windows XP Embedded, Windows 2000/XP, Linux, QNX
System Design	Fanless with no internal cabling
Remote Management	Built-in Advantech DiagAnywhere agent on Windows CE / XPe

System Hardware

CPU	Pentium M 1.6 GHz, Celeron M 1.5 GHz
Memory	1 GB DDR2 SDRAM built-in
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 10/100/1000 Base-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	(IEC 60068-2-2, 100% CPU/ I/O loading) -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 Automation Computer
UNO-2172-P22E	Pentium M 1.6 GHz, 1 GB RAM Automation Computer

Accessories

UNO-PCM22-AE	2 x PC/104 expansion kit for UNO-2100 series
UNO-FPM21-AE	UNO-2000 series VESA mount kit
PCLS-DIAGAW10	Advantech Remote Monitoring & Diagnosis Utility

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