UNO-1170/E

Intel® Pentium® M/Celeron® M DIN-rail PC with 2 x LAN, 3 x COM, 4 x USB, PC/104+

Features

- Onboard Celeron® M 1.0 GHz or Pentium® M 1.4 GHz
- Onboard 512 KB battery-backup SRAM
- Onboard system & I/O LED indicators
- Two RS-232 and one RS-232/422/485 ports with automatic flow control
- Two 10/100 Base-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 XP Embedded, and Linux ready solution
- Supports boot from LAN function
- Fanless design with no internal cabling
- One internal USB for dongle and flash drive
- Isolation between chassis and power ground

Introduction

UNO-1170(E) is an DIN-rail, which provides several serial communication ports and Ethernet interfaces, with a compact size, small foot print, and help to saves space and its front accessible is very convenient for wiring and DIN-rail design for easy installation in field cabinet. With rich OS and driver supports, such as Windows XP embedded, WinCE 6.0, and even embedded Linux. You can integrate your applications easily with an application ready platform that can provide a versatile function to fulfill diverse requirements.

Specifications

General

- **Certification** CE, FCC Class A, UL, CCC
- **Dimension (W x H x D)** 85 x 155 x 140 mm (3.4" x 6.1" x 5.6") (UNO-1170)
  109 x 155 x 140 mm (4.3" x 6.1" x 5.6") (UNO-1170E)
- **Enclosure** Aluminum + SECC
- **Mounting** DIN-rail, Wallmount
- **Power Consumption** 24 W (Typical)
- **Power Requirement** 10 ~ 36 V_{DC} (e.g +24 V @ 2 A) (Min. 48 W), AT
- **Weight** 1.6 KG (for UNO-1170)
  2.0 KG (for UNO-1170E)
- **OS Support** WES Windows XP embedded, Windows 2000 & XP, Windows CE 5.0/6.0, 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 1.4 GHz, Celeron M 1.0 GHz
- **Memory** 512 MB/1 GB DDR SDRAM built-in
- **Battery Backup SRAM** 512 KB
- **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
  (Only for UNO-1170E)
- **PC/104 Slot** 2x PC/104+ slot, supports 3.3 V & +5 V
  (Only for UNO-117E, one PC/104+ left while using HDD)
- **Mini PCI** 1x MiniPCI (UNO-1170E only)
- **Display** DB15 VGA connector, 1600 x 1200 @ 85 Hz
- **Audio** Line in, Line out
- **Watchdog Timer** Programmable 256 levels 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
- **Serial Port Speed** RS-232: 50 ~ 115.2 kbps
  RS-422/485: 50 ~ 921.6 kbps (Max)
- **LAN** 2 x 10/100 Base-T RJ-45 ports (Built-in boot ROM in flash BIOS)
- **USB** 4 x USB, EHCI, Rev. 2.0 compliant (1 is for USB dongle and USB flash inside chassis)

Environment

- **Operating Temperature** (IEC 60068-2-2, 100% CPU/ I/O loading)
  -10 ~ 60° C (14 ~ 140° F)
- **Storage Temperature** -20 ~ 80° C (-4 ~ 176° F)
- **Operating Humidity** 20 ~ 95% (non-condensing)
- **Storage Humidity** 0 ~ 95% (non-condensing)
- **Shock Protection** IEC 68 2-27
  CompactFlash: 50 G @ wall mount, half sine, 11 ms
  HDD: 20 G @ wall mount, half sine, 11 ms (Only for UNO-1170E)
- **Vibration Protection** IEC 68 2-64 (Random 1 Oct./min, 1hr/axis.)
  CompactFlash®: 5 Grms @ 5 ~ 500 Hz,
  HDD: 1 Grms @ 5 ~ 500 Hz (Only for UNO-1170E)

Ordering Information

- **UNO-1170-C11E** Celeron M 1 GHz, 512 MB RAM DIN-rail PC
- **UNO-1170-C12E** Celeron M 1 GHz, 1 GB RAM DIN-rail PC
- **UNO-1170E-C11E** Celeron M 1 GHz, 512 MB, DIN-rail PC w/PC/104+
- **UNO-1170-P12E** Pentium M 1.4 GHz, 1 GB RAM DIN-rail PC
- **UNO-1170E-P12E** Pentium M 1.4 GHz, 1 GB, DIN-rail PC w/PC/104+

Accessories

- **UNO-FPM11-BE** UNO-1100 series VESA mount kit
- **PCLS-DIAGAW10** Advantech Remote Monitoring & Diagnosis Utility
- **UNO-ANT11-AE** Antenna kit for UNO-1100 Series