UNO-4678

Intel® Celeron® M Fanless Box PC with 3 x LAN, 8 x COM, PC/104

Features

- Onboard Celeron® 1 GHz processor and 512 MB or 1024 MB RAM
- Supports Lm sensor which can retrieve CPU and board temperature for monitoring purposes
- 8 x isolated RS-232/422/485 ports with automatic flow control
- 3 x 10/100Base-T RJ-45 ports
- Supports two USB and 1 x type I/II CF card
- Windows® CE 5.0 and Windows XP Embedded ready solution
- Windows 2000/XP driver ready and Linux driver support
- Windows XP Embedded (SP2) ready platform with write protection (EWF)
- Onboard system & I/O LED indicators
- Fanless design with no internal cabling

Introduction

UNO-4678 is high-performance Fanless Box PC, which supports a Celeron M 1 GHz CPU, and equipped with eight isolated serial communication ports. They inherit the glory from the UNO family and includes the typical characteristics as it is fanless, robust, and reliable. Furthermore, in order to meet the diverse applications in industrial automation and control, varied interfaces and 1U form factor are suitable for use, especially for rack mounting. Also, LEDs for all ports and modes on the front panel simplify the monitoring status for operation, administration and maintenance. UNO-4678 is convenient and user-friendly platforms to fulfill a wide range of requirements.

Specifications

General

- **Certifications** CE, FCC class A, UL, CCC
- **Dimensions (W x D x H)** 1U (440 x 220 x 44 mm/17.3" x 8.6" x 1.7")
- **Enclosure** SECC
- **Mounting** Rack mount
- **Power Consumption** 24 W (Typical)
- **Power Requirements** Min. 48 W (9 ~ 36 V_{DC}) (e.g +24 V @ 2 A), AT
- **Weight** 3.6 kg
- **OS Support** Windows XP Embedded, Windows 2000/XP, Windows CE 5.0, Linux

System Hardware

- **CPU** Celeron M 1.0 GHz
- **Memory** 512 MB DDR SDRAM (UNO-4678-C11E) or 1024 MB DDR SDRAM (UNO-4678-C12E)
- **Indicators** LEDs for Power, Power Input 1 & 2, Power fault, IDE, LAN (Active, Status) and Serial (Tx, Rx)
- **Keyboard/Mouse** 1 x PS/2
- **Storage**
  - SSD: 1 x internal type I/II CompactFlash® slot
  - HDD: Built-in 2.5" SATA/IDE HDD bracket
- **Display** DB15 VGA connector 1600 x 1200 @ 85 Hz

I/O Interface

- **Serial Ports** 8 x RS-232/422/485 ports include:
  - 2 x DB-9 connectors with 9-wired RS-232
  - 6 x screw terminals with 5-wired RS-232
  - Automatic RS-485 data flow control
  - 2000 V_{DC} surge protection & 2000 V_{DC} isolation
- **Serial Port Speed** RS-232: 50 ~ 230.4 kbps
  RS-422/485: 50 ~ 921.6 kbps (Max.)
- **LAN** 3 x 10/100Base-T RJ-45 ports
- **USB Ports** 2 x USB, USB EHCI, Rev. 2.0 compliant

Environment

- **Humidity** 95% @ 40° C (non-condensing)
- **Operating Temperature** -10 ~ 50° C (14 ~ 122° F)
- **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: 0.5 Grms @ 5 ~ 500 Hz

Ordering Information

- **UNO-4678-C11E** Celeron M 1 GHz, 512 MB RAM Fanless Box PC
- **UNO-4678-C12E** Celeron M 1 GHz, 1024 MB RAM Fanless Box PC