

UNO-2160

Celeron® 400 MHz Universal Network Controller with PC/104 Extension



CE FCC UL

Features

- Onboard Celeron® 400 MHz, 256 MB SDRAM
- Provides 512 KB battery-backup RAM
- Supports Lm sensor which can retrieve CPU and board temperature for monitoring purposes
- Two RS-232 and two RS-232/422/485 ports with automatic flow control.
- Two 10/100Base-T RJ-45 ports
- Two USB and one type I/II PC Card
- Two optional PC/104 extensions
- Windows® CE .NET 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)
- Windows® CE .NET 4.2 Binary BSP provided

Introduction

UNO-2160 is a high-performance Pentium III grade controller that supports PC/104 extensions, serial communication ports and several other networking interfaces. UNO-2160 supports Windows XP Embedded OS and Windows CE .NET, 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
- **Dimensions (WxDxH)** 255 x 152 x 50 mm (10" x 6.0" x 2.0")
- **Enclosure** Aluminum
- **Mounting** Wall
- **Power Consumption** 22 W (Typical)
- **Power Input** Min. 48 W (9 ~ 36 V_{DC}) (e.g. +24 V @ 2 A)
- **Weight** 1.6 kg
- **OS Support** Windows® XP Embedded, Windows® 2000/XP, Windows® CE .NET 5.0, Linux

System Hardware

- **CPU** Celeron® 400 MHz Ultra low-voltage version
- **Battery Backup RAM** 512 KB
- **Indicators** LEDs for power, IDE, alarm for RAM backup battery, 1 x PS/2
- **Keyboard/Mouse** One slot with: 256 MB SDRAM
- **Memory** 1 x PC Card slot, supports CardBus (Card-32) Card and 16-bit (PCMCIA 2.1/JEIDA4.2) card
- **PC Card** Supports +5, +3.3 and +12 V @120 mA working power
- **PC/104** 2 x PC/104 slots (optional). Supports +5V power
- **Printer Port** 1 x printer port
- **Storage** SSD: 1 x internal type I/II CompactFlash® slot
HDD: extension kit for one standard 2.5" HDD
- **VGA** DB15 VGA connector

Communications

- **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 Base-T RJ-45 ports
- **USB Ports** 2 x USB, UHCI, Rev. 1.1 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

Hardware

- **UNO-2160-JDA0** Celeron 400 MHz, 256 MB SDRAM, PC/104, 4xCOM
- **UNO-PCM21-A** UNO-2100 series 2 x PC/104 extension kit

Hardware with OS

- **UNO-2160CE-JEA2** UNO-2160-JDA0 with 64 MB CF and CE .NET 5.0
- **UNO-2160XP-JIA2** UNO-2160-JDA0 with 1 GB CF and XPE (SP2)