

# UNO-2160

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



CE FCC UL

### Features

- Onboard Celeron® 400 MHz, 256/512 MB SDRAM
- Provides 512 KB of 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.
- Supports Modbus/RTU and Modbus/TCP devices.
- Supports ADAM series for remote data acquisition and control
- Windows® CE .NET and Windows® XP Embedded ready solution

### 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. Speed up your system development with an application ready platform that can provide a rich networking interface to fulfill diverse requirements.

### Specifications

- **CPU** Celeron® 400 MHz Ultra low-voltage version, 256/512 MB SDRAM onboard (Default: 256 MB SDRAM).
- **Battery-backup RAM** 512 KB Battery-backup RAM
- **VGA/Keyboard/Mouse** DB-15 VGA Connector, PS/2 keyboard & mouse
- **Serial Ports** 2 x RS-232 and 2 x RS-232/422/485 with DB-9 connectors  
Automatic RS-485 data flow control
- **Serial Port Speed** RS-232: 50 ~ 115.2 kbps  
RS-422/485: 50 ~ 921.6 kbps
- **LAN** Two 10/100 Base-T RJ-45 Ports
- **USB Interface** Two USB ports, USB UHCI, Rev. 1.1 compliant
- **Printer Port** One printer port
- **PC Card** One PC Card slot  
Supports CardBus (Card-32) Card and 16-bit (PCMCIA 2.1/JEIDA4.2) Card  
Supports +5 V, +3.3 V and +12 V @ 120 mA working power
- **SSD** One internal type I/II CompactFlash® slot
- **LEDs** Power, IDE, Alarm for RAM Backup Battery
- **PC/104** Two PC/104 Extensions. (Option). Support +5V working power
- **HDD** Built in HDD bracket for installation of one standard 2.5" HDD
- **Anti-Shock** 50 G @ Wall mounting, IEC 68 2-27, half sine, 11 ms w/CompactFlash® SSD  
20 G @ Wall mounting, IEC 68 2-27, half sine, 11 ms w/HDD
- **Anti-Vibration** 2 Grms w/CF @ IEC 68 section 2-64, random, 5 ~ 500 Hz, 1 Oct./min, 1 hr/axis, Random vibration  
1 Grms w/ HDD @ IEC 68 section 2-64, random, 5 ~ 500 Hz, 1 Oct./min, 1 hr/axis, Random vibration
- **Power Supply** 9 ~ 36 V<sub>DC</sub>
- **Power Consumption** 22W (Typical)
- **Power Requirement** Min 48W, +24V@2A
- **Operating Temperature** -10~50° C (14~122° F) @ 5~85% related humidity.
- **Relative Humidity** 95% @ 40° C
- **Weight** 1.6 kg
- **Chassis Size (WxDxH)** 255 x 152 x 50 mm (10" x 6.0" x 2.0")
- **Software Options** Windows® XP Embedded, Windows® NT/2000/XP, Windows® CE .NET V4.2

### Ordering Information

- **UNO-2160-JDA0** Celeron® 400MHz, 256MB SDRAM Universal Network Controller with PC/104 extension
- **UNO-2160-KDA0** Celeron® 400MHz, 512MB SDRAM Universal Network Controller with PC/104 extension
- **UNO-PCM21-A** UNO-2100 series 2 x PC/104 extension kit
- **UNO-2160CE-JEA1** Celeron® 400MHz, 256MB SDRAM Universal Network Controller with PC/104 extension, 64MB industrial-grade CF and Windows® CE.NET 4.2
- **UNO-2160CE-KEA1** Celeron® 400MHz, 512MB SDRAM Universal Network Controller with PC/104 extension, 64MB industrial-grade CF and Windows® CE.NET 4.2
- **UNO-2160XP-JHA1** Celeron® 400MHz, 256MB SDRAM Universal Network Controller with PC/104 extension, 512MB industrial-grade CF and Windows® XP Embedded
- **UNO-2160XP-KHA1** Celeron® 400MHz, 512MB SDRAM Universal Network Controller with PC/104 extension, 512MB industrial-grade CF and Windows® XP Embedded

### Dimensions

