

# UNO-2170

## Celeron® M 1 GHz Universal Network Controller with PC/104 Extension

NEW



CE FCC UL

### Features

- Onboard Celeron® M 1 GHz or Celeron 600 MHz, 256/512 MB DDR DRAM
- Provides 512 KB battery-backup SRAM
- ECC DDR DRAM (only for Celeron M 1 GHz processor)
- 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)

### Introduction

UNO-2170 is a high-performance Celeron M grade controller that supports PC/104 extensions, serial communication ports and several other networking interfaces. UNO-2170 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** 24 W (Typical)
- **Power Input** Min. 48 W (9 ~ 36 V<sub>DC</sub>) (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 600 MHz/Celeron M 1 GHz
- **Battery Backup RAM** 512 KB
- **Indicators** LEDs for power, IDE, alarm for RAM backup battery,
- **Keyboard/Mouse** 1 x PS/2
- **Memory** One slot with 256 MB DDR DRAM (upgradable to 512 MB)
- **PC Card** 1 x PC Card slot, supports CardBus (Card-32) Card and 16-bit (PCMCIA 2.1/JEIDA4.2) 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. 2.0 compliant

#### Environment

- **Humidity** 95% @ 40° C (non-condensing)
- **Operating Temperature** -10~50° C (14~122° F) @ 5~85% RH.
- **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-2170-NDA0** Celeron 600 MHz, 256 MB DDR, PC/104, 4xCOM
- **UNO-2170-ODA0** Celeron 600 MHz, 512 MB DDR, PC/104, 4xCOM
- **UNO-2170-QDA0** Celeron M 1GHz, 256 MB DDR, PC/104, 4xCOM
- **UNO-2170-RDA0** Celeron M 1 GHz, 512 MB DDR, PC/104, 4xCOM
- **UNO-PCM21-A** UNO-2100 series 2 x PC/104 extension kit

#### Hardware with OS

- **UNO-2170CE-NEA0** UNO-2170-NDA0 with 64 MB CF and CE .NET 5.0
- **UNO-2170XP-NIA0** UNO-2170-NDA0 with 1 GB CF and XPE (SP2)
- **UNO-2170XP-NICO** UNO-2170-NDA0, w/ Simplified Chinese XPe SP2, 1GB ICF
- **UNO-2170XP-NITO** UNO-2170-NDA0, w/ Traditional Chinese XPe SP2, 1GB ICF
- **UNO-2170XP-OIA0** UNO-2170-ODA0, w/ English XPe SP2, 1GB ICF
- **UNO-2170XP-OICO** UNO-2170-ODA0, w/ Simplified Chinese XPe SP2, 1GB ICF
- **UNO-2170XP-OITO** UNO-2170-ODA0, w/ Traditional Chinese XPe SP2, 1GB ICF
- **UNO-2170XP-QIA0** UNO-2170-QDA0, w/ English XPe SP2, 1GB ICF
- **UNO-2170XP-QICO** UNO-2170-QDA0, w/ Simplified Chinese XPe SP2, 1GB ICF
- **UNO-2170XP-QITO** UNO-2170-QDA0, w/ Traditional Chinese XPe SP2, 1GB ICF
- **UNO-2170XP-RIA0** UNO-2170-RDA0, w/ English XPe SP2, 1GB ICF