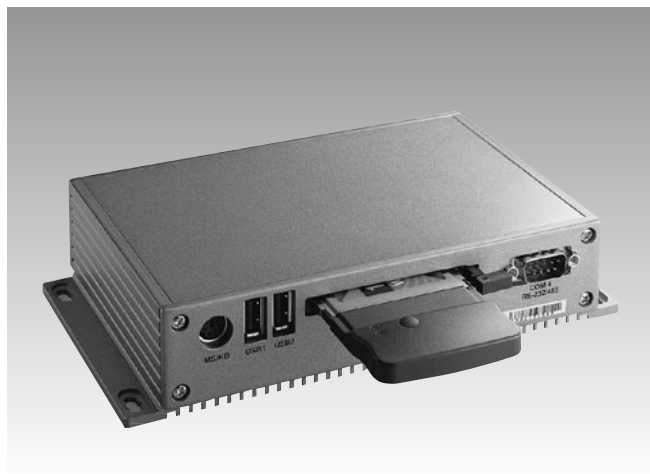


UNO-2059

**GX1-300 UNO with PC Card, LAN, 2xUSB,
2xRS-232/485, 2xRS-232/422/485**



CE FCC

Features

- On-board GX1-300 MHz, 64/128 MB SDRAM
- Two RS-232/485 and two RS-232/422/485 ports with automatic flow control.
- One 10/100Base-T RJ-45 port.
- Two USB ports and one type I/II PC Card.
- One programmable diagnostic LED and buzzer.
- Supports Modbus/RTU and Modbus/TCP devices.
- Supports ADAM series for remote data acquisition and control
- Supports Wireless LAN PCMCIA modules.
- Microsoft® Windows® CE .NET ready solution.

Introduction

Advantech's UNO-2059 is a 586-grade platform that offers USB and PC card interfaces to fulfill user's I/O device expansion needs. In addition, it also offers two RS-232/485 and two RS-232/422/485 communication ports on board with automatic flow control functionality. The UNO-2059 is an ideal and compact solution for large computing and communication requirements.

UNO-2059 comes with a Windows® CE OS offering a pre-configured image with optimized onboard device drivers. Microsoft® Windows® CE is a compact, highly efficient, real-time operating system designed for embedded systems without mechanical HDD limitations.

To expand storage capability, the UNO-2059 allows the addition of an external 2.5" HDD using Advantech's UNO HDD extension kit. It can be used for large data backup requirements and popular OS installations such as Microsoft® Windows® and Linux® OS. Significant anti-vibration (1G w/ HDD) is maintained even with the mechanical HDD inside.

UNO-2059 is a perfect embedded application ready platform that can shorten your development time and offer a rich networking interface to fulfill your diverse requirements.

Specifications

- **CPU** NS Geode™ GX1-300 MHz with 64/128 MB SDRAM on board
- **VGA/Keyboard/Mouse** DB-15 VGA Connector, PS/2 keyboard & mouse
- **Serial Port**
 - 2 × standard RS-232, 2 × RS-232/RS-422/485
 - Automatic RS-485 data flow control
 - RS-422/485 surge protection up to 2,000 V_{DC}
 - Speed: RS-232: 50 ~ 230.4 kbps;
 - RS-422/485: 50 ~ 921.6 kbps
- **USB Interface** Two USB ports, USB OpenHCI, Rev. 1.0 compliant
- **LAN** One 10/100Base-T RJ-45 Port
- **PC Card** One PC Card slot
 - Supports CardBus (Card-32) Card and 16-bit (PCMCIA 2.1/JEIDA4.2) Card
 - Support +5 V, +3.3 V and +12 V @ 120 mA power
- **SSD** One internal type I/II CompactFlash® slot
- **HDD** HDD extension kit offered for installation of one standard 2.5" HDD.
- **Watchdog Timer** Programmable.
- **LED** Power LED, IDE LED, one programmable diagnostic LED and one buzzer.
- **Power Supply** 9 ~ 36 V_{DC}
- **Anti-Shock** 20 G @ DIN IEC 68 section 2-27, half sine, 11ms
50 G @ Wall/Panel IEC 68 section 2-27, half sine, 11 ms.
- **Anti-Vibration** 2 G w/ CF @ IEC 68 section 2-6, sine, 5 ~ 500 Hz, 1 Oct./min, 1 hr/axis.
1 G w/ HDD @ IEC 68 section 2-6, sine, 12 ~ 300 Hz, 1 Oct./min, 1 hr/axis.
- **Operating Temperature** -10 ~ 55° C (14 ~ 131° F) @ 5~85% related humidity.
- **Related Humidity** 95 % @ 40° C.

- **Power Consumption** 0.6 A max under +24 V power input or 1.2 A max under +12 V power input
- **Power Requirement** 1 A typical under +24 V power input or 1.5 A typical under +12 V power input
- **Chassis Size (WxDxH)** 188.8 x 106.5 x 35.5 mm (7.5" × 4.2" × 1.4")
- **Weight** 0.8 kg
- **Driver Support**
 - **Windows® CE** UNO configuration utility, Programmable LED and buzzer Driver. Watchdog timer Driver.
 - **Linux** Programmable LED and buzzer Driver. Watchdog timer Driver.
 - **Windows® 2000/XP** COM port driver
Programmable LED and buzzer Driver
Watchdog timer Driver.

Ordering Information

- **UNO-2059-GDA1** GX1-300 Universal Network Controller with 64 MB SDRAM, PC Card, LAN, 2 x USB, 2 x RS-232/485, 2 x RS-232/422/485
- **UNO-2059CE-GDA2** GX1-300 Universal Network Controller with 64 MB SDRAM PC Card, LAN, 2 x USB, 2 x RS-232/485, 2 x RS-232/422/485 and 32MB CF with Windows® CE .NET 4.2 OS.
- **UNO-2059-HDA1** GX1-300 Universal Network Controller with 128 MB SDRAM, PC Card, LAN, 2 x USB, 2 x RS-232/485, 2 x RS-232/422/485
- **UNO-HD20-A** UNO-2000 HDD extension kit