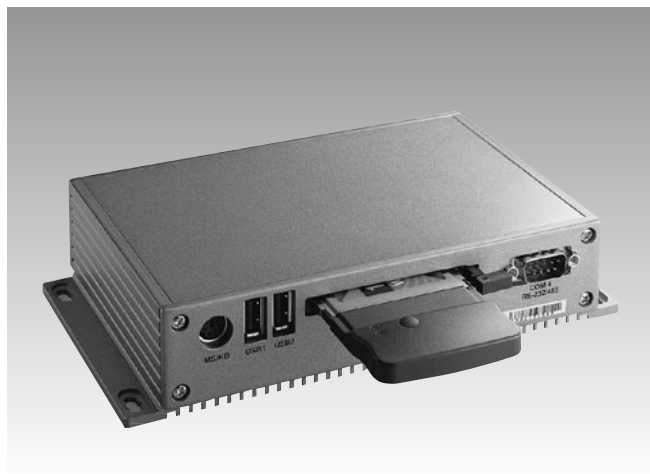


UNO-2059

**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.
- Microsoft® Windows® CE .NET ready solution.
- Windows® 2000 driver ready and Linux driver support
- Windows® CE .NET 4.2 Binary BSP provided

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

General

- **Dimensions** 188.8 x 106.5 x 35.5 mm (7.5" x 4.2" x 1.4")
- **Power Consumption** 15 W (typical)
- **Power Input** Min. 24 W (9~36 V_{DC}) (e.g +24 V @ 1 A)
- **Power Supply** 9 ~ 36 V_{DC}
- **Weight** 0.8 kg
- **OS Support** Windows® 2000, Windows® CE .NET 5.0, Linux

System Hardware

- **CPU** NS Geode™ GX1-300 MHz
- **Indicators** Power LED, IDE LED, one programmable diagnostic LED and buzzer
- **Keyboard/Mouse** 1 x PS/2
- **Memory** 64/128 MB SDRAM on board
- **Storage** SSD: 1 x internal type I/II CompactFlash® slot
HDD: extension kit for one standard 2.5" HDD
- **VGA** DB15 connector

Communications

- **Serial Ports** 2 x standard RS-232, 2 x RS-232/RS-422/485
- Automatic RS-485 data flow control
- RS-422/485 surge protection up to 2,000 V_{DC}
- **Serial Port Speed** RS-232: 50 ~ 230.4 kbps;
RS-422/485: 50 ~ 921.6 kbps (Max.)
- **USB Ports** 2 x USB ports, OpenHCI, Rev. 1.1 compliant
- **LAN** 1 x 10/100Base-T RJ-45 port
- **PC Card** 1 x 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
- **Watchdog Timer** Programmable

Environment

- **Humidity** 95 % @ 40° C (non-condensing)
- **Ingress Protection** IP40
- **Operating Temperature** -10 ~ 55° C (14 ~ 131° F)
- **Shock Protection** IEC 68 2-27
CompactFlash®: 20 G @ DIN, half sine, 11 ms,
50 G @ Wall/Panel, half sine, 11 ms
- **Vibration Protection** IEC 68 2-6
CompactFlash®: 2 Grms @ sine, 5 ~ 500 Hz,
1 Oct./min, 1hr/axis.
HDD: 1 Grms @ sine, 12 ~ 300 Hz, 1 Oct./min,
1 hr/axis.

Ordering Information

Hardware

- **UNO-2059-GDA1** GX1-300, 64 MB SDRAM, PC Card, 4xCOM, 2xUSB
- **UNO-2059-HDA1** GX1-300, 128 MB SDRAM, PC Card, 4xCOM, 2xUSB
- **UNO-HD20-A** UNO-2000 HDD extension kit

Hardware with OS

- **UNO-2059CE-GDA2** UNO-2059-GDA1 with 32 MB CF and CE .NET 4.2