

# UNO-2053

**GX1-300 UNO with PC Card,  
2xLAN, 2xUSB, 2xRS-232**



CE FCC

## Features

- On-board GX1-300 MHz CPU, 64/128 MB SDRAM
- Two standard RS-232 and one DB-15 VGA connector.
- Two 10/100Base-T RJ-45 ports.
- Two USB and one type I/II PC Card slots.
- Supports Modbus/RTU and Modbus/TCP devices.
- Supports ADAM series for remote data acquisition and control
- Supports Wireless LAN PCMCIA modules.
- Windows® CE .NET ready solution.

## Introduction

The Advantech UNO-2053 is a 586-grade platform that offers dual LAN, dual USB and PC card interfaces to fulfill user's diverse communication needs. In addition, it also offers two RS-232 communication ports on board. Therefore, the UNO-2053 is an ideal solution for data gateway applications.

UNO-2053 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-2053 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 is maintained even with the mechanical HDD inside. (1 G)

UNO-2053 is a perfect embedded application-ready platform that can shorten your development time and offer a rich networking interface to fulfill diverse requirements.

## Specifications

- **CPU** NS Geode™ GX1-300 MHz, 64/128 MB SDRAM on board
- **VGA/Keyboard/Mouse** DB-15 VGA Connector, PS/2 keyboard & mouse
- **Serial Port** 2 × standard RS-232  
Speed: RS-232: 50 ~ 115.2 kbps
- **USB Interface** Two USB ports, USB OpenHCI, Rev. 1.0 compliant
- **LAN** Dual 10/100Base-T RJ-45 Ports
- **PC Card** One PC Card slot  
- Support CardBus (Card-32) Card and 16-bit (PCMCIA 2.1/JEIDA4.2) Card  
- Support +5 V, +3.3 V and +12 V @ 120 mA working power
- **SSD** One internal type I/II CompactFlash® card slot
- **HDD** HDD extension kit is offered for installation of one standard 2.5" HDD.
- **Watchdog Timer** Programmable.
- **LEDs** One Power LED and one IDE LED.
- **Power Supply** 10 ~ 30 V<sub>DC</sub>
- **Anti-Shock** 20 G @ DIN IEC 68 section 2-27, half sine, 11 ms  
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.  
1G 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 @ +24 V power input  
1.5 A @ +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, Watchdog timer Driver.
- **Linux®** Watchdog timer Driver.
- **Windows® 2000/XP** Watchdog timer Driver.

## Ordering Information

- **UNO-2053-GDA0** GX1-300 Universal Network Controller with 64 MB SDRAM, PC Card, 2 x LAN, 2 x USB, 2 x RS-232
- **UNO-2053CE-GDA2** GX1-300 Universal Network Controller with 64 MB SDRAM, PC Card, 2 x LAN, 2 x USB, 2 x RS-232 and 32MB CF with Windows® CE .NET 4.2 OS
- **UNO-2053-HDA0** GX1-300 Universal Network Controller with 128 MB SDRAM, PC Card, 2 x LAN, 2 x USB, 2 x RS-232
- **UNO-HD20-A** UNO-2000 HDD extension kit