

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

## 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

### General

- **Dimensions (WxDxH)** 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 (10~30 V<sub>DC</sub>) (e.g. +24V @ 1 A)
- **Power Supply** 10~30 V<sub>DC</sub>
- **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
- **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 DB15 connector
- **VGA**

### Communications

- **LAN** 2 x 10/100Base-T RJ-45 ports
- **PC Card** 1 x 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
- **Serial Ports** 2 x standard RS-232
- **Serial Port Speed** RS-232: 50 ~ 115.2 kbps
- **USB Ports** 2 x USB ports, USB OpenHCI, Rev. 1.1 compliant
- **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,  
10 ct./min, 1hr/axis.  
HDD: 1 Grms @ sine, 12 ~ 300 Hz, 10 ct./min,  
1hr/axis.

## Ordering Information

### Hardware

- **UNO-2053-GDA0** GX1-300, 64 MB SDRAM, PC Card, 2xLAN, 2xCOM
- **UNO-2053-HDA0** GX1-300, 128 MB SDRAM, PC Card, 2xLAN, 2xCOM
- **UNO-HD20-A** UNO-2000 HDD extension kit

### Hardware with OS

- **UNO-2053CE-GDA2** UNO-2053-GDA0 with 32 MB CF and CE .NET 4.2

1

Software

2

IPPC

3

TPC

4

FPM

5

ATM & AWS

6

DA&C

7

cPCI

8

ADAM-3000

9

Motion Control

10

ICOM

11

eConnectivity

12

UNO

13

ADAM-4000

14

ADAM-5000

15

ADAM-6000

16

ADAM-8000

17

BAS