

UNO-2053E

**GX2-400 UNO with PC Card,
2xLAN, 2xUSB, 2xRS-232, Audio**



CE FCC

Features

- Onboard GX2-400 MHz CPU, 256MB DDRAM
- 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
- Audio with Mic in, Line in, Line out
- Windows® CE 5.0 ready solution
- Windows XP Embedded SP2 ready solution
- Embedded Linux ready solution
- Windows CE 5.0 Binary BSP provided

Introduction

The Advantech UNO-2053E is a X86-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-2053E is an ideal solution for data gateway applications.

UNO-2053E 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-2053E 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-2053E 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")
- **Enclosure** Aluminum
- **Mounting** Wall, DIN 35 rail
- **Power Consumption** 15 W (Typical)
- **Power Requirements** Min. 24 W (10~30 V_{DC}) (e.g. +24V @ 1 A)
- **Weight** 0.8 kg
- **OS Support** Windows 2000 & XP, Windows CE 5.0, Linux

System Hardware

- **CPU** AMD GX2-400 MHz
- **Indicators** Power LED, IDE LED
- **Keyboard/Mouse** 1 x PS/2
- **Memory** 256MB DDRAM on board
- **Storage** SSD: 1 x internal type I/II CompactFlash® slot
HDD: extension kit for one standard 2.5" HDD
- **VGA** DB15 connector
- **Audio** Mic in, Line in, Line out
- **Watchdog Timer** Programmable

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

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-2053E-IDA0E** GX2-400, 256MB DDRAM, PC Card, 2xLAN, 2xCOM, Audio
- **UNO-HD20-A** UNO-2000 HDD extension kit

Hardware with OS

- **UNO-2053EXP-1IA0E** UNO-2053E-IDA0E w/ WinXPe SP2 and 1GB ICF card
- **UNO-2053ECE-1FA0E** UNO-2053E-IDA0E w/ WinCE 5.0 and 128MB ICF card