UNO-2053

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 drvier ready and Linux driver support
- Windows® CE .NET 4.2 Binary BSP provided

CE FCC

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" × 4.2" × 1.4")
- **Power Consumption** 15 W (Typical)
- **Power Input** Min. 24 W (10~30 V_{DC}) (e.g +24V @ 1 A)
- **Power Supply** 10~30 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
- **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

- **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

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