UNO-2053E

AMD Geode™ GX Automation Computer with 2 x LAN, 2 x COM, Audio, PC Card

Features

- Onboard AMD Geode GX533 (400 MHz) CPU
- 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 slot
- Audio with Mic in, Line in, Line out
- Windows® CE 5.0 & 6.0, Windows XP Embedded SP2, and Linux ready solution
- Fanless design with no internal cabling
- Isolation between chassis and power ground

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 is available with a pre-configured Windows CE 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 expansion 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

- **Certifications**   CE, FCC class A, UL, CCC
- **Dimensions (W x D x H)**   188.8 x 106.5 x 35.5 mm (7.5" x 4.2" x 1.4")
- **Enclosure**   Aluminum
- **Mounting**   Wallmount, DIN-rail
- **Industrial Grounding**   Isolation between chassis and power ground
- **Power Consumption**   15 W (Typical)
- **Power Requirements**   9 ~ 36 V_{DC} (e.g +24 V @ 1 A) (Min. 24 W), AT
- **Weight**   0.8 kg
- **OS Support**   WES Windows XP Embedded, Windows 2000 & XP, Windows CE 5.0 & 6.0, Linux
- **System Design**   Fanless with no internal cabling
- **Remote Management**   Built-in Advantech DiagAnywhere agent on Windows CE / XPe

System Hardware

- **CPU**   AMD Geode GX533 (400 MHz)
- **Memory**   Onboard 256 MB DDR SDRAM
- **Indicators**   LEDs for power, IDE and LAN (Active, Status)
- **Keyboard/Mouse**   1 x PS/2
- **Storage**   SSD: 1 x internal type I/II CompactFlash® slot / HDD: expansion kit for 2.5" IDE HDD (Option)
- **Display**   DB15 VGA connector, 1024 x 768 @ 60 Hz
- **Audio**   Mic in, Line in, Line out
- **Watchdog Timer**   Programmable 256 levels timer interval, from 1 to 255 sec

I/O Interface

- **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**   (IEC 60068-2-2, 100% CPU/ I/O loading) -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

- **UNO-2053E-IDA0E**   GX2 400 MHz, 256 MB RAM Automation Computer

Accessories

- **UNO-HD20-AE**   UNO-2000 HDD expansion kit
- **UNO-FPM21-AE**   UNO-2000 series VESA mount kit
- **PCLS-DIAGAW10**   Advantech Remote Monitoring & Diagnosis Utility

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