# UNO-2059E

### **AMD Geode™ GX Automation Computer** with 4 x COM, LAN, PC Card



#### **Features**

- Onboard AMD Geode GX533 (400 MHz) CPU
- 2 x RS-232/485, 2 x RS-232/422/485 with automatic flow control
- 1 x 10/100Base-T RJ-45 port
- 2 x USB ports and 1 x type I/II PC card
- One programmable diagnostic LED and buzzer
- 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



Self-service Terminals

# Introduction

Advantech's UNO-2059E is an X86-grade platform that offers USB and PC card interfaces to fulfill I/O device expansion needs. In addition, it also offers two RS-232/485 and two RS-232/422/485 communication ports with automatic flow control functionality. The UNO-2059E is an ideal compact solution for large computing and communication requirements.

UNO-2059E 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-2059E allows the addition of an external 2.5" HDD using Advantech's 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 (1G w/HDD) is maintained even with the mechanical HDD inside.

# **Specifications**

#### General

Certifications CE, FCC class A

 Dimensions (W x D x H) 188.8 x 106.5 x 35.5 mm (7.5" x 4.2" x 1.4") Aluminum

Enclosure

Wallmount, DIN-rail Mounting

**Industrial Grounding** Isolation between chassis and power ground

Power Consumption 15 W (typical)

10 ~ 48 V<sub>DC</sub> (e.g +24 V @ 1 A) (Min. 24 W), AT **Power Requirements** 

Weight

**OS Support** WES Windows XP Embedded, Windows 2000 & XP,

Windows CE 5.0 & 6.0, Linux, QNX Fanless with no internal cabling

 System Design Remote Management Built-in Advantech DiagAnywhere agent on Windows

CE / XPe

#### **Environment**

USB Ports

PC Card

LAN

Serial Port Speed

- 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)

RS-232: 50 ~ 230.4 kbps;

1 x PC card slot

1 x 10/100Base-T RJ-45 port

(PCMCIA 2.1/JEIDA4.2) Card

RS-422/485: 50 ~ 921.6 kbps (Max.)

2 x USB ports, OpenHCI, Rev. 1.1 compliant

Supports CardBus (Card-32) Card and 16-bit

Supports +5 V, +3.3 V and 12 V @ 120 mA Power

 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,

1 Oct./min, 1hr/axis.

HDD: 1 Grms @ sine, 12 ~ 300 Hz, 1 Oct./min,

#### **System Hardware**

- CPU AMD Geode GX533 (400 MHz) Onboard 256 MB DDR SDRAM Memory

Indicators LEDs for power, IDE, diagnosis (programmable) and

LAN (Active, Status)

Buzzer for diagnosis (programmable)

Keyboard/Mouse

SSD: 1 x internal type I/II CompactFlash® slot HDD: expansion kit for 2.5" IDE HDD (Option) DB15 VGA connector, 1024 x 768 @ 60 Hz

Display Watchdog Timer Programmable 256 levels timer interval, from 1 to 255

#### I/O Interface

Storage

Serial Ports 2 x RS-232/485, 2 x RS-232/422/485

- Automatic RS-485 data flow control

- RS-422/485 surge protection up to 2,000  $V_{DC}$ 

## **Ordering Information**

 UNO-2059E-IDA0E GX2 400 MHz, 256 MB RAM Automation Computer

#### **Accessories**

UNO-HD20-AE UNO-200 HDD expansion kit UNO-FPM21-AE UNO-2000 series VESA mount kit

PCLS-DIAGAW10 Advantech Remote Monitoring & Diagnosis Utility