# UNO-2059GL

## AMD Geode™ LX Automation Computer with 4 x COM, LAN



#### **Features**

- Onboard AMD Geode GX533 LX800 500MHz CPU
- 2 x RS-232/485, 2 x RS-232/422/485 with automatic flow control
- 1 x 10/100Base-T RJ-45 port and 2 x USB 2.0 ports
- 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



### Introduction

Advantech's UNO-2059GL is an X86-grade platform that offers USB 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-2059GL is an ideal compact solution for large computing and communication requirements.

The UNO-2059GL 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-2059GL 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

Certification
 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")

Enclosure AluminumMounting Wallmount, DIN-rail

Industrial Grounding Isolation between chassis and power ground

• Power Consumption 15 W (typical)

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

• Weight 0.8 k

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

Windows CE 5.0 & 6.0, Linux, QNX

• System Design Fanless with no internal cabling

Remote Management Built-in Advantech DiagAnywhere agent on Windows

CE / XPe

#### **System Hardware**

CPU AMD Geode LX800 500MHz
 Memory Onboard 256 MB DDR SDRAM

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

LAN (Active, Status)

Buzzer for diagnosis (programmable)

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)
DB15 VGA connector. 1024 x 768 @ 60 Hz

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

Sec

#### I/O Interface

**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  $V_{DC}$ 

■ **Serial Port Speed** RS-232: 50 ~ 230.4 kbps;

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

• USB Ports 2 x USB ports, EHCI, Rev. 2.0 compliant

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

#### **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,

1 Oct./min, 1hr/axis.

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

1 hr/axis.

## **Ordering Information**

■ UNO-2059GL-G30E LX800 500MHz, 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

**ADVANTECH** 

Display

**Embedded Automation Computers**