

# UNO-2052E

AMD GX2 UNO with 2 x CAN, LAN



## Features

- Onboard GX2 400 MHz
- Provides two CAN interfaces
- Provides one 10/100Base-T RJ-45 port and one USB port
- Windows® CE 5.0 & 6.0, Windows XP Embedded SP2, and Linux ready solution
- Fanless and no internal cabling design

## Introduction

The Advantech UNO-2052E is a X86-grade platform that offers dual CAN 2.0B interfaces. Combined with CAN 2.0B interfaces, the UNO-2052E is an ideal solution for automobile and logistics applications. UNO-2052E 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-2052E 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-2052E is the perfect embedded application-ready-platform to shorten development time and offer a rich networking interface to fulfill diverse application requirements.

## Specifications

### General

- **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** Wall, DIN 35 rail
- **Power Consumption** 15 W (Typical)
- **Power Input** 9 ~ 36 V<sub>DC</sub> (e.g. +24 V @ 1 A) (Min. 24 W), AT
- **Weight** 0.8 kg
- **OS Support** Windows XP Embedded, Windows 2000 & XP, Windows CE 5.0 & 6.0, Linux

### System Hardware

- **CPU** AMD GX2 400 MHz
- **Memory** Onboard 256 MB DDR SDRAM
- **Indicators** Power LED, IDE LED, one programmable diagnostic LED and buzzer
- **Keyboard/Mouse** 1 x PS/2
- **Storage** SSD: 1 x internal type I/II CompactFlash® slot  
HDD: expansion kit for one standard 2.5" HDD (Option)
- **VGA** DB15 connector
- **Watchdog Timer** Programmable

### Communications

- **CAN** 2 x isolated CAN 2.0B interfaces  
CAN controller: SJA-1000  
CAN transceiver: 82C250
- **LAN** 1 x 10/100Base-T with RJ-45 port
- **Serial Ports** 1 x standard RS-232
- **Serial Port Speed** RS-232: 50 ~ 115.2 kbps
- **USB Ports** 1 x USB port, OpenHCI, Rev. 1.1 compliant

### Environment

- **Humidity** 95 % @ 40° C (non-condensing)
- **Ingress Protection** IP40
- **Operating Temperature** -10 ~ 55° (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,  
1hr/axis.

## Ordering Information

- **UNO-2052E-IDA0E** GX2 400 M, 256 MB RAM UNO-2052E

### Accessories

- **UNO-HD20-AE** UNO-2000 HDD expansion kit
- **UNO-FPM21-AE** UNO & FPM integration kit
- **UNO-ADAM42-AE** UNO-2000 & ADAM integration kit