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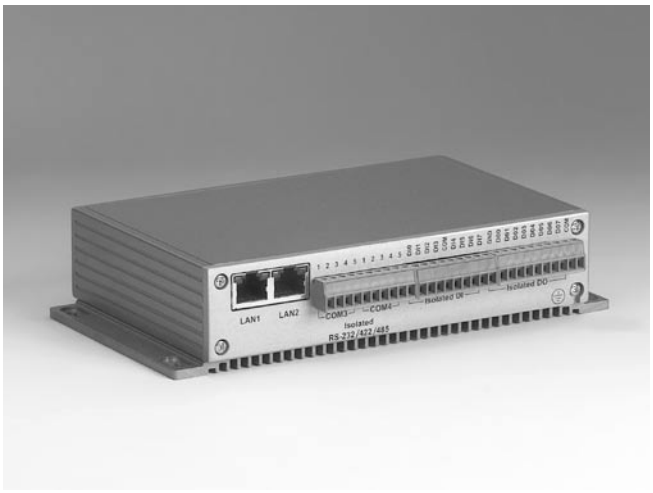
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UNO-2050

GX1-300 UNO with 2xLAN, 2xRS-232 2xIsolated RS-232/422/485, 16xIsolated DI/O



Features

- On-board GX1-300 MHz, 64/128 MB SDRAM
- Two RS-232 and two-isolated RS-232/422/485 with automatic flow control
- Two 10/100 Base-T RJ-45 port.
- Isolated 8-channel DI and 8-channel DO with counter and timer.
- One programmable diagnostic LED and buzzer.
- Supports Modbus/RTU and Modbus/TCP devices.
- Supports ADAM series for remote data acquisition and control
- Windows® CE .NET ready solution.

CE FCC

Introduction

The Advantech UNO-2050 is a 586-grade platform with dual LAN and 16-channel isolated digital I/O and timer/counter. In addition, it also provides two RS-232 and two isolated RS-232/422/485 communication ports with RS-485 automatic flow control functionality. Therefore, the UNO-2050 is an ideal solution for embedded controllers.

UNO-2050 comes with a built-in Windows® CE solution 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-2050 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 (1G w/ HDD) is maintained even with the mechanical HDD inside. UNO-2050 is the perfect embedded application ready platform that can shorten development time and offer a rich networking interface to fulfill diverse application requirements.

Specifications

CPU	NS Geode™ GX1-300 MHz, 64/128 MB SDRAM on board
VGA/Keyboard/Mouse	DB-15 VGA Connector, PS/2 keyboard & mouse
Serial Ports	2 × standard RS-232 (COM1/COM2) 2 × isolated RS-232/422/485 (COM3/COM4) Automatic RS-485 data flow control RS-232/422/485 (COM3/COM4) with 2000 V_{DC} surge protection & 2000 V_{DC} isolation Speed: RS-232: 50 ~ 230.4 kbps; RS-422/485: 50 ~ 921.6 kbps
8-ch Isolated Digital Input	2,000 V_{DC} isolation, 2,000 V_{DC} ESD protection, 70 V_{DC} over-voltage protection 0 ~ 50 V_{DC} input range and 10 kHz speed; Interrupt handling.
8-ch Isolated Digital Output	2,000 V_{DC} isolation and 200 mA max / channel sink current Keep output status after system hot reset 5 ~ 40 V_{DC} output range and 10 kHz speed
Two 16-bit Counter Timer	Counter source: DI6 & DI7, Pulse output: DO6 & DO7 Can be cascaded as one 32-bit counter/timer Down counting, preset counting value, interrupt handling Timer time base: 100 kHz, 10 kHz, 1 kHz,100 Hz
LAN	Dual 10/100Base-T with RJ-45 Port
SSD	One internal type I/II CompactFlash® slot
HDD	Offer HDD ext.kit for inst. of one standard 2.5" HDD.
Watchdog Timer	Programmable
Anti-Shock	20 G @ DIN IEC 68 section 2-27, half sine, 11 ms 50 G @ Wall/Panel IEC 68 section 2-27, half sine, 11 ms.
Anti-Vibration	2 G w/ CompactFlash® @ IEC 68 section 2-6, sine, 5 ~ 500 Hz, 1 Oct./min, 1hr/axis. 1 G w/ HDD @ IEC 68 section 2-6, sine, 12 ~ 300 Hz, 1 Oct./min, 1 hr/axis.
LED	Power LED, IDE LED and one programmable diagnostic LED and buzzer.
Power Supply	9 ~ 36 V_{DC}
Operating Temperature	-10 ~ 55° (14 ~ 131° F) @ 5 ~ 85% relative humidity.
Related Humidity	95% @ 40° C.
Power Consumption	0.6 A max @ +24 V input or 1.2 A max @ +12 V input
Power Requirement	1 A typical @ +24 V nput or 1.5 A typical @ +12 V input
Chassis Size (WxDxH)	188.8 x 106.5 x 35.5 mm (7.5" × 4.2" × 1.4")
Weight	0.8 kg

Driver Support

Windows® CE	UNO configuration utility. COM port Driver, Digital input / digital output driver. Programmable LED and buzzer Driver. Watchdog timer Driver.
Linux®	Digital input / digital output driver. COM port driver. Programmable LED and buzzer Driver. Watchdog timer Driver.
Windows® 2000/XP	COM port driver, Digital input / digital output driver. Programmable LED and buzzer Driver. Watchdog timer Driver.

Ordering Information

UNO-2050-GDA0	GX1-300 UNO with 64 MB SDRAM, 2 x LAN, 2 x RS-232, 2 x isolated RS-232/422/485, 16 x isolated DI/O
UNO-2050-HDA0	GX1-300 UNO with 128 MB SDRAM, 2 x LAN, 2 x RS-232, 2 x isolated RS-232/422/485, 16 x isolated DI/O
UNO-2050CE-GDA2	GX1-300 UNO with 64MB SDRAM, 2xLAN, 2xRS-232, 2xisolated RS-232/422/485, 16xisolated DI/O and 32MB CF with Windows® CE.NET 4.2 OS
UNO-HD20-A	UNO-2000 HDD extension kit

All product specifications are subject to change without notice

Last updated : January 2005

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