UNO-2058

GX1-300 Universal Network Controller with GPS/GPRS Communication

NEW

Features

- On-board GX1-300MHz, 64/128MB SDRAM
- Two RS-232/485 ports and one RS-232/422/485 ports
- RS-485 automatic flow control
- One 10/100Base-T RJ-45 port
- Supports GPS positioning
- Supports GSM/GPRS communication
- Isolated 4-channel DI and 4-channel DO
- 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

Introduction

UNO-2058 is a 586-grade industrial-grade fanless platform that provides two RS-232, one RS-232/422/485, one LAN, and two USB ports. Moreover, UNO-2058 provides GPS/GPRS two-way wireless communication for usage in mobile applications. The rugged industrial design has excellent anti-shock (50 G) and anti-vibration (2 G) properties, as well as a special aluminium heat sink design that makes it operate reliably in temperatures up to 55.. C without a fan. UNO-2058 is also IP30 certified.

UNO-2058 comes with a built-in Windows® CE .NET solution offering a pre-configured image with optimized on-board device drivers. Microsoft® Windows® CE .NET is a compact, highly efficient, real-time operating system designed for embedded systems without mechanical HDD limitations.

Specifications

- **CPU**   NS Geode™ GX1-300MHz with 64MB SDRAM on board
- **VGA/Keyboard/Mouse**   DB-15 VGA connector, PS2 keyboard & mouse
- **Serial Port**   2 x RS-232/485 and 1 x RS-232/422/485
- **Automatic RS-485 data flow control**
- **Speed**   RS-232: 50 bps ~ 230.4 kbps
  RS-422/485: 50 bps ~ 921.6 kbps
- **LAN**   One 10/100Base-T RJ-45 port
- **USB**   Two USB ports, USB OHCI, Rev. 1.0 compliant
- **SSD**   One internal typeI/II CompactFlash slot
- **LED**   Power, GPS, GPRS, reserved for DO.
- **GPS**   Receiver: 16 channels, L1 civil frequency
  1575.42 MHz, C/A code
  Accuracy: 2.5m CEP
  GPS 2m CEP (Depending on accuracy of correction data).
  Signal reacquisition: < 1 sec.
  Protocol: NMEA-0183 input/output
  UBX binary input/output
  RTCM in
- **GPRS class**   10
  PBCCH support
  Coding Schemes: CS1 to CS4
- **SMS (Short Message Service) point-to-point MT/MO and SMS CB**
- **4-ch isolated Digital Input (DI0~DI3)**   Supports dry/wet contact
  2000 V_{DC} isolation
  70 V_{DC} over-voltage protection
- **4-ch isolated Digital Output (DO0~DO3)**   Open collector to 40V (200 mA max load)
- **Special power management design**

- **Anti-Shock**   50 G @ Wall mounting, IEC 68 section 2-27, half sine, 11ms w/CF
- **Anti-Vibration**   2 Grms @ Wall mounting, IEC 68-6, random, 5 ~ 500 Hz, 1 Oct./min, 1hr/axis
- **Power Supply**   9 ~ 36 V_{DC}
- **Operating Temperature**   -10 ~ 55° C (14 ~ 140° F) @ 5~85% relative humidity
- **Storage Temperature**   -20 ~ 70° C (-4 ~ 158° F) @ 5~85% relative humidity
- **Relative Humidity**   95% @ 40° C
- **Chassis Size (WxDxH)**   188.8 x 106.5 x 51.0 mm (7.5" x 4.2" x 2.0")
- **Weight**   1.2 kg

Ordering Information

- **UNO-2058CE-GDA0**   GX1-300 Universal Network Controller with 64MB SDRAM and GPS/GPRS communication, built-in 32MB CF and Windows® CE.NET 4.2 OS.

All product specifications are subject to change without notice   Last updated : January 2005