UNO-4672

Intel[®] Pentium[®] M/Celeron[®] M Automation Computer with 6 x LAN, 10 x COM, 8 x DI, 8 x D0, PC/104+



Features

- IEC 61850-3 and IEEE 1613 compliant for substation automation applications
- Onboard Celeron M 1 GHz or Pentium M 1.4 GHz processor
- 2 x RS-232 and 8 x RS-232/422/485 isolated serial ports with automatic flow control and 128KB FIFO
- 2 x 10/100/1000 Base-T (supports teaming function) and 4 x 10/100 Base-T
- Supports 2 x internal CF cards and 1 x 2.5" SATA HDD
- PC/104+ extension and 4 x USB 2.0 (1 x internal)
- Rear wiring, rich system & I/O LED status indicators
- Windows® CE 6.0, Windows XP Embedded SP2, and Linux ready solution
- Fanless design with no internal cabling
- Isolation power design with wide AC / DC input range
- Isolation between chassis and power ground
- One internal USB for dongle and flash drive

Introduction

UNO-4672 is compliant with IEC 61850-3 certification which defines the international standards of network and system communications in power substations. Featuring a fanless design with built-in isolated PSU and ten isolated serial communication ports, UNO-4672 is even suitable for any harsh applications. The rear I/O connection and LEDs on front panel for all ports and modes highly simplify monitoring for operation and maintenance.

Specifications

General

	Certifications Dimensions (W x D x H) Enclosure Mounting Power Consumption Power Requirements Weight	IEC 61850-3, IEEE 1613, CE, FCC class A, UL, CCC 2U (440 x 220 x 88) mm (17.3" x 8.6" x 3.4") fits into standard 19 inch rack SECC 2U Rackmount 45W (Typical) AC : $90 - 250 V_{AC}$ (47 ~ 400 Hz) DC : $106 - 250 V_{BC}$ With isolation protection, AT 6.0 kg
•	OS Šupport	WES, Windows® XP Embedded, Windows 2000/XP, Windows CE 6.0, Linux, QNX
	System Design Remote Management	Fanless with no internal cabling Built-in Advantech DiagAnywhere agent on Windows CE/ XPe
System Hardware -		
	CPU	Pentium M 1.4 GHz, Celeron M 1.0 GHz
•		1 GB DDR DRAM built-in LEDs for Power, IDE, Alarm for battery backup SRAM, Diagnosis (programmable), LAN (Active, Status) and Serial (Tx, Rx)
1	Storage SSD	2x internal type I/II Compact Flash® slots
	HDD	Build-in one 2.5" SATA HDD bracket
	Display PC/104 Slot	DB15 VGA connector, 1600 x 1200 @ 85 Hz PC/104+ supports +3.3 V & +5 V power
	Watchdog Timer	Programmable 256 levels timer interval, from 1 to 255 sec 512 KB
I/O Interface		
•	Serial Ports	2 x DB-9 RS-232 & 8 x screw terminals with 5-wired RS-232/422/485 Automatic RS-485 data flow control 2000 V _{DC} EFT protection & 2000 V _{DC} isolation
•	Serial Port Speed	(COM1, COM2) RS-232: 50 ~ 115.2 kbps, (COM3 ~ COM10) RS-232: 50 ~ 230.4 kbps RS-422/485: 50 ~ 921.6 kbps (Max.)
•	LAN	2 x 10/100/1000 Base-T RJ-45 ports,teaming function supported 4 x 10/1000Base-T RJ-45 ports

- USB Ports
- Digital Inputs
- Digital Outputs

Timer/Counter

- **Counter Source**
- Pulse Outnut D02 & D03 Can be cascaded as one 32-bit counter/timer
- Down counting, preset counting value
- 100 kHz, 10 kHz, 1 kHz, 100 Hz **Timer Time Base**

Environment

- Humidity
- 95% @ 40° C (non-condensing) IEC 60068-2-2 with 100% CPU/ I/O loading, 48 hrs _20 ~ 65° C (-4 ~ 149° F) **Operating Temperature** 20 ~ 95% (non-condensing)

4 x USB, UHCI, Rev. 2.0 compliant 1 x Front, 2 x Rear and 1 x Internal ports

Logic 0: 0 ~ 3 V_{DC} ; Logic 1: 10 ~ 50 V_{DC}

Keep output status after system hot reset 5 ~ 40 V_{DC} output range and 10 kHz speed

2,000 V_{DC} isolation, 2,000 V_{DC} ESD protection and 70 V_{DC}

2,000 V_{DC} isolation and 200 mA max/channel sink current

8-ch wet contact

8-ch D0

DI1 & DI3

over-voltage protection Interrupt handling: IRQ 7 photo couple response: 100 µs

- **Operating Humidity** Shock Protection
 - IEC 68 2-27 CompactFlash®: 50 G half sine, 11 ms HDD: 20 G half sine, 11 ms

HDD: 1 Grms @ 5 ~ 500 Hz

Vibration Protection IEC 68 2-64 (Random 1 Oct./min, 1hr/axis.) CompactFlash®: 2 Grms @ 5 ~ 500 Hz,

Ordering Information

- Celeron M 1 GHz, 1 GB RAM Automation Computer Pentium M 1.4 GHz, 1 GB RAM Automation Computer UNO-4672-C12E UNO-4672-P12E UNO-P168-AE 8-port RS-232/422/485 w/lso and EFT, PCI-104 for UNO-4672 UNO-P166-AE 6-port RS-232/422/485 w/lso and EFT, 2-port IRIG-B, PCI-104 for UNO-4672 PCLS-DIAGAW10 Advantech Remote Monitoring & Diagnosis Utility
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