UNO-4673A UNO-4683

Intel[®] Atom[™] / Core[™] i7 Automation Computers with 6 x LAN, 2 x COM and 3 x Expansion Slots



Features

- IEC 61850-3 and IEEE 1613 compliant for substation automation applications
- Onboard Intel Atom 1.66 GHz / Core i7 2.0 GHz processor
- 2 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 1 x internal CF card and 1 x 2.5" SATA HDD
- 6 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-4673A and UNO-4683 are compliant with the hardware requirements of IEC 61850-3, which defines the international standards of network and system communications in power substations. Featuring fanless designs with built-in isolated PSU and 3 expansion slots for I/O plug-in cards, UNO-4673A and UNO-4683 are suitable for harsh environment 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 	IEC 61850-3, IEEE 1613, CE, FCC Class A, UL, CCC	 Seria
 Dimensions (W x D x H)) 2U (440 x 280 x 88) mm (17.3" x 11" x 3.4")	
	fits into standard 19 inch rack	
 Enclosure 	SECC	 Seria
 Mounting 	2U Rackmount	
 Power Consumption 	45W (Typical)	- LAN
 Power Requirements 	AC : 100 ~ 240 V _{AC} (47 ~ 63 Hz)	
	DC : 106 ~ 250 V _{DC}	
	With isolation protection, AT	 Audi
 Weight 	6.0 kg	 USB
 OS Support 	WES, Windows® XP Embedded, Windows 2000/XP,	
	Windows CE 6.0, Linux, QNX	Enviro
 System Design 	Fanless with no internal cabling	
 Remote Management 	Built-in Advantech DiagAnywhere agent on Windows	• Hum
Ū	CE/XPe	 Oper
System Hardware		• Oper
• CPU	Intel Dual Core Atom D510 1.66 GHz / Core i7 2.0 GHz	 Oper Shoc
		- 31100
 Memory 	2G DDR2 SDRAM/4G DDR3 SDRAM built-in	 Vibra
 Indicators 	LEDs for Power, IDE, Alarm for battery backup SRAM,	
	Diagnosis (programmable), LAN (Active, Status) and Serial (Tx, Rx)	
- Storogo		
 Storage CF 	1 x internal type I/II CompactFlash® slot	
HDD	Build-in one 2.5" SATA HDD bracket	
 Display 	DB15 VGA connector, 1600 x 1200 @ 85 Hz	
 Watchdog Timer 	Programmable 7-tier event handler, from 1 to 255	
- watenuoy miler	seconds for each tier	
 Battery Backup SRAM 	1 MB	
- Dattery Datkup Shall	טוא ו	

I/O Interface

 Serial Ports 	2 x DB-9
	Automatic RS-485 data flow control
	2000 V_{DC} EFT protection & 2000 V_{DC} isolation
 Serial Port Speed 	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 10/100Base-T RJ-45 ports
 Audio 	Line-out
 USB Ports 	6 x USB, UHCI, Rev. 2.0 compliant
	2 x Front, 3 x Rear and 1 x Internal ports

niditv 95% @ 40° C (non-condensing) erating Temperature IEC 60068-2-2 with 100% CPU/ I/O loading, 48 hrs -20 ~ 70° C (optional for -40° C) erating Humidity 20 ~ 95% (non-condensing) IEC 60068-2-27 CompactFlash®: 50 G half sine, 11 ms ck Protection HDD: 20 G half sine, 11 ms ration Protection IEC 60068-2-64 (Random 1 Oct./min, 1hr/axis.) CompactFlash®: 2 Grms @ 5 ~ 500 Hz, HDD: 1 Grms @ 5 ~ 500 Hz