UNO-4671A

Intel® Atom™ D510 Substation Computer with 6 x LAN, 10 x COM, and 1 x PCI-104

NEW

Features

- China Electricity Certificate IV level
- IEC 61850-3 and IEEE 1613 compliant for substation automation applications
- Onboard Intel Atom D510 1.66 GHz processor
- Supports wide range and dual power input
- 2 x RS-232 isolated ports, 4 x RS-422/485 isolated ports and 4 x RS-485 isolated ports
- 6 x 10/100Base-T RJ-45 connector
- Supports 1 x internal CF card and 1 x 2.5" SATA HDD
- Fanless design
- WES 2009, Windows XP, Windows CE 6.0 and Linux ready solution

Windows Embedded | RoHS COMPLIANT 2002/95/EC | CCC | CE | FCC

Introduction

UNO-4671A is compliant with Electricity Certificate IV level (especially for China) and IEC 61850-3 certification, which defines the international standards of network and system communications in power substations. Featuring a fanless design with low power consumption and high performance Intel Atom D510 processor, the UNO-4671A comes with 10 isolated serial ports, 6 x LAN, 4 x USB (Internal) and 1 x PCI-104 extension. With rich OS and driver support, such as WES 2009, Windows XP, Windows CE 6.0 and Linux, users can integrate applications easily with a platform that can provide versatile functions to fulfill diverse requirements.

Specifications

General

Certification	CE, FCC class A, CCC, Electricity IV level for China (Compatible IEC 61850-3, IEEE 1613)
Dimension (W x D x H)	2U (440 x 220 x 88 mm/17.3" x 8.6" x 3.4") fits into standard 19 inch rack
Enclosure	SECC
Mounting	2U Rackmount
Power Consumption	30 W @ 24 V (Typical)
Power Requirements	Supports dual power input Power 1: 100 ~ 240 V_{AC} or 100 ~ 240 V_{DC} (Optional 18 ~ 30 V_{DC}) Power 2: 100 ~ 240 V_{AC} or 100 ~ 240 V_{DC} (Optional 18 ~ 30 V_{DC})
Weight	< 5.5 kg
System Design	Fanless design
OS Support	WES 2009, Windows XP, Windows CE 6.0 and Linux
Remote Management	Built-in Advantech DiagAnywhere agent on Windows CE/XPe

System Hardware

CPU	Intel Atom D510 1.66 GHz
Memory	2 GB DDR2 SDRAM
Indicators	LEDs for Power1&2, IDE, LAN (Active,Link) and Serial (Tx, Rx)
Storage	
CF	1 x internal type I/II CompactFlash® slot
HDD	Built-in one 2.5" SATA HDD bracket
Display	DB15 VGA connector, Intel® Atom™ D510 up to 1920 x 1024
PCI-104 Slot	1 x PCI-104 supports +3.3 V & +5 V power
Reset Button	Yes
WatchDog Timer	Programmable 256 levels time interval, from 1 to 255 seconds for each tier

I/O Interface

Serial Ports	2 x DB-9 RS-232 4 x screw terminals with 5-wired RS-422/485 4 x screw terminals with 3-wired RS-485 (Automatic RS-485 data flow control) 2,500 V_{DC} isolation
Serial Port Speed	(COM1, COM2) RS-232: 50 ~ 115200bps, (COM3 ~ COM6) RS-422/485: 50 ~ 921600bps (COM7 ~ COM10) RS-485: 50 ~ 921600bps
LAN	6 x 10/100Base-T RJ-45 ports
USB Ports	4 x USB, UHCI, Rev. 2.0 compliant 1 x Front, 2 x Rear and 1 x Internal ports
Extension	1 x PCI-104

Environment

Humidity	95% @ 40°C (non-condensing)
Operating Temperature	IEC 60068-2-2 with 100% CPU/ I/O loading, 48 hrs -20 ~ 60°C (-4 ~ 140°F)
Operating Humidity	20 ~ 95% (non-condensing)
Shock Protection	IEC 68 2-27 CompactFlash®: 30 G half sine, 11 ms HDD: 20 G half sine, 11 ms
Vibration Protection	IEC 68 2-64 (Random 1 Oct./min, 1hr/axis.) CompactFlash: 2 Grms @ 5 ~ 500 Hz, HDD: 1 Grms @ 5 ~ 500 Hz

Ordering Information

UNO-4671A-A33E	Intel Atom D510 1.66 GHz, 2 GB RAM Automation Computer
PCLS-DIAGAW10	Advantech Remote Monitoring & Diagnosis Utility

ADVANTECH | **Energy Automation**