ECU-4674

Intel® Atom™ N2600 Power and Energy Computers with 8 x LAN, 18 x COM, 8 x D/I. 8 x D/O. 1 x IRIG-B. and 1 x PCI-104



Features

- Intel® Core™ i7, i3/Celeron® processors
- Isolated 8 x LAN, 10 x serial port communication interfaces
- 220 VAC/DC redundant power supply
- 48Vdc power for selection
- 2 x I/O expansion slots
- 2 x 2.5" SATA HDD, 1 x CFast socket for storage
- VGA and DVI display interface
- Programmable LEDs
- Intelligent connectivity diagnosis management
- Remote management
- Trusted platform module
- Virtualization technology for directed I/O







Introduction

The ECU-4674 product is compliant with Electricity Certificate level IV (especially for China) and IEC 61850-3 and IEEE 1613 certification, which provides higher reliability and stability, suitable for any Global P&E automation market and harsh environment. With versatile communication interface to use for Smart substation Communication server and IED Analyzer to fulfill the Data Gateway & Protocol Conversion requiremment easily. Featuring a fanless design with high performance Intel Atom N2600 processor, the ECU-4674 comes with 18 isolated serial ports, 8 x LAN and 1 x PCI-104 extension. With iCDMananger support, users can easy diagnose System & Communication and enhance maintenance efficiency, with Structured and functional module Internal design for easy customization and Fast assembly to fulfill the different kind of application.

Specifications

General

Certification CE, FCC class A, CCC, Electricity IV level for China (Compatible IEC 61850-3, IEEE 1613)

 Dimensions (W x D x H) 440 x 220 x 88 mm Enclosure SECC & Aluminum Mounting 2U Rack mount

 Power Requirements Supports Redundant power input

Power 1: $100 \sim 240 \text{ V}_{AC}$ or $100 \sim 240 \text{ V}_{DC}$ Power 2: $100 \sim 240 \text{ V}_{AC}$ or $100 \sim 240 \text{ V}_{DC}$

Supports Power loss alarm

Weight < 5.5 kg

OS Support Windows7, WES7(WS7P), Linux (Debain 5.0)

 System Design Fanless

System Hardware

CPU Intel Atom N2600, 1.6GHz Memory 2G DDR3 SDRAM built-in

LEDs for Power, HDD, Programmable LED, IRIG-B, Indicators

LAN (Active, Status) and Serial (Tx, Rx) 1 x internal CF. 2 x 2.5" SATA HDD (RAID 0.1)

Display DB15 VGA connector Expansion slot 1 x PCI-104

 Watchdog Timer Programmable 256 levels time interval, from 1 to 255

seconds for each tier

I/O Interface

LAN

Storage

 Serial Ports 18 Ports, 2 x RS-232, 16 x RS-232/485 (Max.)

2,500 V_{DC} isolation

(Automatic RS-485 data flow control) Serial Port Speed RS-232: 50 ~ 115.2 kbps,

RS-485: 50 ~ 921.6 kbps

2 x 10/100/1000Base-T RJ-45 ports, teaming function

supported, 6 x 10/100Base-T RJ-45 ports

USB Ports 5 x USB (1x internal), UHCI, Rev. 2.0 compliant Digital Input 8-ch isolated digital input

Wet contact: Logic 0:0 ~ 3 V_{DC}; Logic 1: 10 ~ 30 V_{DC} Isolation protect: 2000 V_{DC} , 30–50 V_{DC} over voltage protection (Only for ECU-4674-A53SAE) Opto-Isolator Response:25us-interrupt capable

 Digital Output 8-ch isolated digital output

2000 V_{DC} isolation, 200mA max/channel sink current

Keeps output status after system hot reset

Open collector to 40V (200mA maximum sink current load) 3 kHz speed (Only for ECU-4674-A53SAE)

 Programmable LED 8-ch programmable LED indicator

Time Synchronization Interface

IRIG-B (RS-485) Type

Channel

Support Format IRIG-BOOX according to IRIG STANDARD 04, 200-98 QQQHHMMSS (year, day, hour, minute & second) Message Syntax **Resolution of Time**

Environment

Storage Humidity 5 ~ 95% RH (non-condensing)

Operating Temperature IEC 60068-2-2 with 100% CPU/ I/O loading, 24 hrs

-25 ~ 70°C (-13 ~ 158°F) 5 ~ 95% RH (non-condensing) **Operating Humidity**

IEC 68 2-27 CompactFlash®: 30 G half sine, 11 ms **Shock Protection Vibration Protection** IEC 68 2-64 (Random 1 Oct./min, 1hr/axis.) CompactFlash: 2 Grms @ 5 ~ 500 Hz

Ordering Information

ECU-4674-A53SAE

Intel Atom N2600 1.6 Ghz ,8 x LAN ,18 x COM, 8 x DI/ DO, 1IRIG-B Computer

ECU-4674-LBA53SAE

Intel Atom N2600 1.6 Ghz, 8 x LAN, 10 x COM (1 IRIG-B for Selection) Computer

XECU-FSP150-1H35(*)

FSP AC/DC 100-240V 150W W/PFC (Note: For ECU-4674 Dual Power, by CTOS configuration center) DC 36V ~ 72V module(Note: For ECU-4674 48V Power

 9893SW0400E(*) Request, by CTOS configuration center) ECUP-1514R-AE(*) PCI-104 4 Port LAN Ethernet Card For ECU-4674

(Note: by CTOS configuration center)

AD\4NTECH **Power & Energy Solution**

All product specifications are subject to change without notice.