ECU-4674

Intel® ATOM E3930 Power and Energy Computers with 8 x LAN, 10 x COM, 1 x IRIG-B

NEW

Features

- China Electricity Certifcate IV level Certifcation for substation applications
- IEC 61850-3 and IEEE 1613 compliant
- Intel® Atom® E3930 processor, 4G DDR3L
- 10 x RS232/485 isolated serial ports
- 8 x 10/100/1000 Base-T Ethernet ports
- 1 x Internal m-SATA, 2 x 2.5" SATA HDD
- 1 x Time Synchronize IRIG-B
- Redundant isolated power with wide AC/DC input range
- Mounting: 2U Rack-mount

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

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 requirement easily. Featuring a fanless design with high performance Intel Atom® E3930 processor, the ECU-4674 comes with 10 isolated serial ports, 8 x LAN and 1 x PCIEx1 extension. 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 ~ 240 V_{AC} or 100 ~ 240 V_{DC}
  Power 2: 100 ~ 240 V_{AC} or 100 ~ 240 V_{DC}
  Supports Power loss alarm
- **Weight** — < 5.5 kg
- **OS Support** — Windows10, Linux
- **System Design** — Fanless

System Hardware

- **CPU** — Intel Atom dual-core E3930, 1.3GHz
- **Memory** — 4G DDR3L SDRAM built-in
- **Indicators** — LEDs for Power, HDD, Programmable LED,IRIG-B, LAN (Active, Status) and Serial (Tx, Rx)
- **Storage** — 1 x m-SATA, 2 x 2.5" SATA HDD
- **Display** — DB15 VGA connector + DVI-I Connector
- **Watchdog Timer** — Programmable 256 levels time interval, from 1 to 255 seconds for each tier

I/O Interface

- **Serial Ports** — 10 Ports, 10 x RS232/485
  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
- **LAN** — 8 x 10/100/1000Base-T RJ-45 ports, teaming function supported
- **USB Ports** — 4 x USB2.0 (include 1 x internal USB), 1 x USB3.0
- **Programmable LED** — 8-ch programmable LED indicator

Time Synchronization Interface

- **Type** — IRIG-B
- **Channel** — 1
- **Support Format** — IRIG-B00X according to IRIG STANDARD 04, 200-98
- **Message Syntax** — QQQHHMMSS (year, day, hour, minute & second)
- **Resolution of Time** — 1s

Environment

- **Storage** — -40°C/ 60°C&95% RH
- **Operation Temperature** — -25~70°C (-4 ~ 158°F) ECU-4674-LA64SCE
- **Operation Humidity** — 40°C&95% RH (non-condensing)
- **Shock Protection** — 10g, 11ms with half sine
- **Vibration Protection** — Random 2Grms@5~500Hz, 1hr/axis with SSD

Ordering Information

- **ECU-4674-LA64SCE** — Intel Atom E3930, 8 x LAN, 10 x COM, 1IRIG-B Computer
- **ECU-4674-CA64SCE** — Intel Atom E3930, 8 x LAN, 18 x COM, 1IRIG-B Computer
- **ECU-4674-EA64SCE** — Intel Atom E3930, 16 x LAN, 10 x COM, 1IRIG-B Computer
- **XECU-FSP150-1H35(*)** — FSP AC/DC 100-240V 150W W/PFC (Note: For ECU-4676 Dual Power, by CTOS configuration center)