

# ECU-4574

## Intel® ATOM E3930 Power and Energy Computers with 8 x LAN, 10 x COM

NEW



### Features

- China Electricity Certificate IV level Certification 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, 1 x 2.5" SATA HDD
- Redundant isolated power with wide AC/DC input range
- Mounting: 1U Rack-mount

### Introduction

The ECU-4574 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-4574 comes with 10 isolated serial ports, 8 x LAN and 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 44 mm
- **Enclosure** SECC & Aluminum
- **Mounting** 1U Rack mount
- **Power Requirements** Supports Redundant power input  
Power 1: 100 ~ 240 V<sub>AC</sub> or 100 ~ 240 V<sub>DC</sub>  
Power 2: 100 ~ 240 V<sub>AC</sub> or 100 ~ 240 V<sub>DC</sub>  
Supports Power loss alarm
- **Weight** < 5.5 kg
- **OS Support** Windows10, Linux
- **System Design** Fanless

#### System Hardware

- **CPU** Intel Atom E3930
- **Memory** 4G DDR3L SODIMM socket
- **Indicators** LEDs for Power, HDD, Programmable LED, IRIG-B, LAN (Active, Status) and Serial (Tx, Rx)
- **Storage** 1 x m-SATA, 1 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<sub>DC</sub> isolation  
(Automatic RS-485 data flow control)
- **Serial Port Speed** RS-232/RS-485: 50 ~ 115.2 kbps
- **LAN** 8 x 10/100/1000Base-T RJ-45 ports, teaming function supported
- **USB Ports** 3 x USB2.0
- **Programmable LED** 8-ch programmable LED indicator

#### Environment

- **Storage** -40°C/60°C&95% RH
- **Operation Temperature** -25~70°C (-4 ~ 158°F)
- **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-4574 -A64SCE** Intel Atom E3930, 8 x LAN, 10 x COM
- **XECU-FSP150-1H35(\*)** FSP AC/DC 100-240V 150W W/PFC (Note: For ECU-4574 Dual Power, by CTOS configuration center)