

ECU-4574

Intel® Atom™ N2600 Power & Energy Computers with 8 x LAN, 10 x COM Ports

NEW



Features

- IEC 61850-3 and IEEE 1613 compliant for substation applications
- Intel Atom N2600 1.6GHz processor, 2GB DDR3
- 2 x RS-232, 8 x RS-232/485 isolated serial ports
- 2 x 10/100/1000, 6 x 10/100 Base-T Ethernet ports
- 1 x CF, 1 x 2.5" SATA SSD
- 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, IEC 61850-3 and IEEE 1613 certification, provides higher reliability and stability performance that is suitable for global smart substations. With a flexible communication interface, the ECU-4574 works as an IED Analyzer that fulfills the smart substation bay level requirements. Featuring a fanless design with Intel Atom N2600 processor, 10 isolated serial ports, eight Ethernet ports, the ECU-4574 is easy for customization and fast assembly to fulfill different kinds of applications.

Specifications

General

- **Certification** CE, FCC class A, CCC (Compatible IEC 61850-3, IEEE 1613)
- **Dimensions (W x D x H)** 480 x 308.9 x 44.5 mm
- **Enclosure** SECC & Aluminum
- **Mounting** 1U 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}
- **Power Consumption** 30W @ 220 V_{AC} (Typical)
- **Weight** < 4.5 kg
- **OS Support** Windows7, WES7(WS7P), Linux (Debian 5.0)
- **System Design** Fanless

System Hardware

- **CPU** Intel Atom N2600, 1.6GHz
- **Memory** 2G DDR3 SDRAM built-in
- **Indicators** LEDs for Power, IDE, LAN(LINK, ACT) and Serial (Tx, Rx)
- **Storage** 1 x internal CF, 1 x 2.5" SATA SSD
- **Display** DB15 VGA connector
- **Watchdog Timer** Programmable 256 levels time interval, from 1 to 255 seconds for each tier

I/O Interface

- **Serial Ports** 2 x RS-232, 8 x RS-232/485 (RS-422 is project based support)
2,500 V_{DC} isolation
- **Serial Port Speed** RS-232: 50 ~ 115.2 kbps,
RS-485: 50 ~ 921.6 kbps
- **LAN** 2 x 10/100/1000Base-T RJ-45 ports, teaming function supported
6 x 10/100Base-T RJ-45 ports
- **USB Ports** 4 x USB, UHCI, Rev. 2.0 compliant

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)
- **Operating Humidity** 5 ~ 95% RH (non-condensing)
- **Shock Protection** IEC 68 2-27 CompactFlash®: 30 G half sine, 11 ms
- **Vibration Protection** IEC 68 2-64 (Random 1 Oct./min, 1hr/axis.)
CompactFlash: 2 Grms @ 5 ~ 500 Hz

Ordering Information

- **ECU-4574-A53SAE** Intel Atom N2600 1.6GHz 8LAN 10COM (1 IRIG-B for Selection) Computer
- **XECU-FSP150-1H35(*)** FSP AC/DC 100-240V 150W W/PFC (Note: For ECU-4574 Dual Power, by CTOS configuration center)