ECU-4784-G5

Intel Xeon IEC-61850-3 Certified Power Automation Computers

NEW

Features

- Intel 9th Gen CoffeeLake Xeon E-2276ML Processor
- DDR4 RAM with ECC, up to 64GB
- Isolated 8 x LAN, 10 x Serial Port Communication Interfaces
- 110-240 V_{DC}/V_{AC} Power Supply
- 2 x IO Expansion Slots
- 2 x 2.5" SATA HDD, 1 x mSATA
- DVI-I, DVI-D Display Interface
- Programmable LEDs
- Remote Management
- Trusted Platform Module
- Virtualization Technology for Directed I/O

vmware READY   Windows Embedded   CCC   CE   FCC   RoHS COMPLIANT 2002/95/EC

Introduction

The ECU-4784 series are TUV IEC 61850-3 and IEEE 1613-certified products that provide high reliability and stability for power automation applications. The fanless robust design, high CPU performance, flexible expansion, rich communication interfaces, and intelligent functions make the ECU-4784 series of industrial PCs suitable to serve as smart substations in harsh environments.

Specifications

General

- **Certification** CE, FCC, CCC, Electricity IV level for China, IEC-61850-3, IEEE-1613, UL, CB, LVD
- **Power Requirements** Power Supply
  Power1: 100 ~ 240 V_{AC}, 100 ~ 240 V_{DC} (default)
  Power2: 100 ~ 240 V_{AC}, 100 ~ 240 V_{DC} (option)
- **Operating System** Windows10, Windows Server 2012 R2, Windows Server 2016
- **Dimensions (W x D x H)** 440 x 280 x 88 mm
- **Enclosure** SECC and aluminum
- **Weight** 6.0 Kg
- **Mounting** 2U Rackmount
- **System Design** Fanless

System Hardware

- **CPU** Intel 9th Gen CoffeeLake Xeon E-2276ML (Base Frequency 2.00 GHz, Turbo Frequency 4.20 GHz)
- **Memory** DDR4 1.2V ECC RAM Up to 64G
- **Indicators** LEDs for PWR1, PWR2, HDD, LAN (LINK, ACT), COM (TX, RX), Slot 1, and Slot 2, Programmable
- **Storage** 2 x 2.5" SATA HDD (RAID0, RAID1)
  1 x mSATA
  HDD Height less than 11mm
- **Display** 1 x DVI-I, 1 x DVI-D (Resolution: 1920 x 1080)
- **Watchdog Timer** Programmable 256 levels time interval, from 1 to 255 seconds for each tier
- **Relay** Relay Output Form C
  Contact 5A @ 125V_{AC}/ 5A @ 30V_{DC}
  Channel 1

Communication Interface

- **Serial Ports** 2 x RS-232 (DB9 connectors, Standard)
  8 x RS-232/422/485 (Terminal Block)
  2,500V isolation
- **Serial Port Speed** RS-232: 50 ~ 115.2 kbps
  RS-422/485: 50 ~ 921.6 kbps (Max.)
- **LAN** 8 x 10/100/1000 Base-T RJ45 ports (Supports teaming function, PXE, LAN1 supports AMT)
- **USB** 4 x USB, UHCI, rev 2.0 compliant (3 x rear,1 x internal)
  2 x USB, UHCI, rev 3.0 compliant (2 x front)
- **Expansion** 2 x Domain I/O expansion slots (Each slot supports 1 x PCIe and 2 x PCI)

Environment

- **Operating Temperature** -25 ~ 60°C (-13 ~ 140°F)
  IEC 60068-2-2 with 100% CPU/ I/O loading, 24 hrs
- **Operating Humidity** 5 ~ 95% RH (non-condensing)
- **Storage Humidity** 5 ~ 95% RH (non-condensing)
- **Shock Protection** IEC 68 2-27: 30 G half sine,11 ms
- **Vibration Protection** IEC 68-2-64 (Random 1 Oct./min, 1hr/axis.)

Ordering Information

- **ECU-4784-G57SCE**
  ECU-4784-G57SCU Intel 9th Gen CoffeeLake Xeon E-2276ML Hexa-core processor with ECC 32 GB RAM, 8 x LAN, 10 x COM, 2 x expansion slots
- **ECU-4784-G58SCE**
  ECU-4784-G58SCU Intel 9th Gen CoffeeLake Xeon E-2276ML Hexa-core ECC 64 GB RAM, 8xLAN, 10xCOM, 2xExpansion slots
- **XECU-FSP150-1H35 (*)** FSP AC/DC 100 ~ 240V, 150W, W/PFC (Note: Dual power configuration is available upon request via Advantech CTOS)
- **9893SW0400E (*)** DC 36V ~ 72V module (Note: A 48V power module is available upon request via Advantech CTOS)