ECU-4784-C3 Intel IEC-61850-3 Certifed Power Automation Computers

NEW

Features

- Intel 6th Gen Celeron 3955U Processor
- DDR3L RAM up to 16GB
- Isolated 8 x LAN, 10 x Serial Port Communication Interfaces
- 100-240 V_{DC}/V_{AC} Power Supply
- 2 x IO Expansion Slots
- 3 x 2.5" SATA HDD, 1 x M.2 PCIe
- DVI-I, DVI-D Display Interface
- Programmable LEDs
- Remote Management
- Trusted Platform Module (TPM2.0)

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

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)
- **Power Consumption**: 52.8W with full loading on CPU, memory, COM, LAN
- **Operating System**: Windows10, Windows Server 2016/2019, Linux
- **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 6th Gen Celeron 3955U
- **Memory**: DDR3L RAM, up to 16GB
- **Indicators**: LEDs for PWR1, PWR2, HDD, LAN (LINK, ACT), COM (TX, RX), Slot 1, and Slot 2, Programmable
- **Storage**: 3 x 2.5" SATA HDD
  1 x M.2 PCIe
  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 isolationn
- **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

Environment

- **Operating Temperature**: -25 ~ 70°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,11 ms
- **Vibration Protection**: IEC 68-2-64: 2G, Sine, 5 ~ 500 Hz

Ordering Information

- **ECU-4784-C36SCE**: Intel 6th Gen Celeron 3955U processor with 16 GB RAM, 8 x LAN, 10 x COM, 2 x expansion slots
- **XECU-FSP150-1H35 (*)**: AC/DC 100 ~ 240V, 150W, W/PFC
  (Note: Dual power configuration is available upon request via Advantech CTOS)
- **9893SW0400E (*)**: DC 36V ~ 72V module
  (Note: 48V power module is available upon request via Advantech CTOS)

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