ECU-4784-E4

Intel IEC-61850-3 Certifed Power Automation Computers



Features

- Intel 6th Gen i7-6600U 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 PCle
- DVI-I, DVI-D Display Interface
- Programmable LEDs
- Remote Management
- Trusted Platform Module(TPM2.0)
- Virtualization Technology for Directed I/O

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

| Power Requirements Power Supply Power1: 100 ~ 240 V_{AC}, 100 ~ 240 V_{bC} (default) Power2: 100 ~ 240 V_{AC}, 100 ~ 240 V_{bC} (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 i7-6600U 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 PCle 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 | Certification | CE, FCC, CCC, Electricity IV level for China, |
|--|--|---|
| Power1: 100 ~ 240 Vac, 100 ~ 240 Voc (default) Power2: 100 ~ 240 Vac, 100 ~ 240 Voc (option)• Power Consumption52.8W with full loading on CPU, memory, COM, LAN• Operating SystemWindows10, Windows Server 2016/2019, Linux• Dimensions (W x D x H)440 x 280 x 88 mm• EnclosureSECC and aluminum• Weight6.0 Kg• Mounting2U Rackmount• System DesignFanlessSystem Hardware-• CPUIntel 6th Gen i7-6600U• MemoryDDR3L RAM up to 16GB• IndicatorsLEDs for PWR1, PWR2, HDD, LAN (LINK, ACT), COM (TX, RX), Slot 1, and Slot 2, Programmable• Storage3 x 2.5" SATA HDD 1 x M.2 PCle HDD Height less than 11mm• Display1 x DVI-I, 1 x DVI-D (Resolution: 1920 x 1080)• Watchdog TimerProgrammable 256 levels time interval, from 1 to 255 seconds for each tier• Relay RelayOutput Form C Contact: 5A @ 125Vac/ 5A @ 30Vac | | IEC-61850-3, IEEE-1613, UL, CB, LVD |
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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 tearning 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 |
| vironment | |
| Operating Temperature | -25 ~ 70°C (-13 ~ 140°F) IEC 60068-2-2 with 100% CPU/ I/O loading, 24 hrs |
| Operating Humidity Storage Humidity | 5 ~ 95% RH (non-condensing) 5 ~ 95% RH (non-condensing) |
| | USB Expansion ivironment Operating Temperature Operating Humidity |

Shock Protection IEC 68 2-27: 30 G,11 ms
 Vibration Protection IEC 68-2-64: 2G. Sine. 5 ~ 500 Hz

• Vibration Protection IEC 68-2-64: 2G, Sine, 5 ~ 500 Hz

Ordering Information

- ECU-4784-E45SCE ECU-4784-E45SCU
 Intel 6th Gen i7-6600U processor with 8 GB RAM, 8 x LAN, 10 x COM, 2 x expansion slots
 ECU-4784-E46SCE ECU-4784-E46SCU
 Intel 6th Gen i7-6600U 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)