

ECU-4784

Intel 6th Gen IEC-61850-3 Certified Power Automation Computers

NEW



Features

- 6th Intel Core i7, i5, i3, Celeron Processors
- Isolated 8 x LAN, 10 x Serial Port Communication Interfaces
- 220V_{AC/DC} Redundant Power Supply (configurable option)
- 48V Power for Selection
- 2 x IO Expansion Slots
- 2 /3 x 2.5" SATA HDD, 1 x m.2 PCIe, Support RAID 0, 1
- DVI_I & DVI_D Display Interface
- Programmable LEDs
- Remote Management
- Trusted Platform Module
- Virtualization Technology for Directed I/O

Specifications

General

- **Certification** CE, FCC, CCC, Electricity IV level for China, IEC-61850-3, IEEE-1613, UL, CB, LVD
- **Power Requirements** Redundant Power Supply
Power1: 100 ~ 240 V_{AC}, 100 ~ 240 V_{DC} (Inside)
Power2: 100 ~ 240 V_{AC}, 100 ~ 240 V_{DC} (option)
- **Power Consumption (Typical)** 30 W
- **Operating System** Windows7, Windows8, Windows10, Windows Server 2008 R2, Windows Server 2012 R2, Windows Server 2016, WES7(WS7P), Windows Embedded 8 64-bit, Linux (Centos 6.x, Debian 6.x, Fedora 13, RHEL 6.x, Ubuntu 10.04, or higher)
- **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® Core™ dual-core i7 6600U, 2.6GHz
Intel® Core™ dual-core i5 6300U, 2.4GHz
Intel® Core™ dual-core i3 6100U, 2.3GHz
Intel® Celeron® dual-core 3955U, 2.0GHz
DDR3L 1.35V non-ECC 8 /16GB
- **Memory**
- **Indicators** Programmable LEDs for PWR1, PWR2, HDD, LAN (LINK, ACT), COM (TX, RX), Slot 1, and Slot 2
- **Storage** 3 x 2.5" SATA HDD (RAID0, RAID1), 1 x m.2 PCIe (ECU-4784-E45SCCE, ECU-4784-E36SCE, ECU-4784-E25SCE)
2 x 2.5" SATA HDD (RAID0, RAID1), 1 x m.2 PCIe (ECU-4784-C36SCE)
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** 6 x USB, UHCI, rev 2.0 compliant (3 x rear, 1 x internal), rev 3.0 compliant (2 x front)
- **Expansion** 2 x Domain I/O expansion slots (Each slot supports PCIe x1 and PCI Interface)

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 mSATA: 30 G half sine, 11 ms
- **Vibration Protection** IEC 68-2-64 (Random 1 Oct./min, 1hr/axis.) CFast®: 2Grms @ 5 ~ 500Hz

Ordering Information

- **ECU-4784-E45SCE** Intel® Core™ dual-core i7 6600 (2.6 GHz) processor with 16 GB RAM, 8 x LAN, 10 x COM, 2 x expansion slots
- **ECU-4784-E36SCE** Intel® Core™ dual-core i5 6300, 2.4GHz processor with 16 GB RAM, 8 x LAN, 10 x COM, 2 x expansion slots
- **ECU-4784-E25SCE** Intel® Core™ dual-core i3 6100, 2.3GHz processor with 8 GB RAM, 8 x LAN, 10 x COM, 2 x expansion slots
- **ECU-4784-C36SCE** Intel® Celeron® 3955U (2.0 GHz) processor with 16 GB RAM, 8 x LAN, 10 x COM, 2 x expansion 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 45V-60V module (Note: A 48V power module is available upon request via Advantech CTOS)