

ECU-4784

IEC-61850-3 Certified Power Automation Computers



Features

- Intel Haswell Core i7, i3, Celeron Processors
- Isolated 8 x LAN, 10 x Serial Port Communication Interfaces
- 220V_{AC/DC} Redundant Power Supply
- 48V Power for Selection
- 2 x IO Expansion Slots
- 2 x 2.5" SATA HDD, 1 x CFast Socket for Storage
- VGA & DVI Display Interface
- Programmable LEDs
- Intelligent Connectivity Diagnosis Management
- 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}
Power2: 100 ~ 240 V_{AC}, 100 ~ 240 V_{DC}
- **Power Consumption (Typical)** 25 W (ECU-4784-D55SAE/ D56SBE/ C25SAE/ E15SAE)
- **Operating System** Windows7, Windows8, Windows Server 2008 R2, WES7(WSP), Windows Server 2012R2, Windows Embedded 8 64-bit, Linux
- **Dimensions (W x D x H)** 440 x 280 x 88 mm
- **Enclosure** SECC and aluminum
- **Weight** 6.0 Kg
- **Mounting** 2U RRackmount
- **System Design** Fanless

System Hardware

- **CPU** Intel® Core™ dual-core i7 4650U, 1.7 GHz (ECU-4784-D55SAE/D56SBE)
Intel® Celeron® 2980U, 1.6 GHz (ECU-4784-C25SAE)
Intel® Core™ i3 4010U, 1.7 GHz (ECU-4784-E15SAE)
- **Memory** DDR3L 1.35V non-ECC 8G
(Up to 16G for ECU-4784-D56SBE)
- **Indicators** Programmable LEDs for PWR1, PWR2, HDD, LAN (LINK, ACT), COM (TX, RX), Slot 1, and Slot 2
- **Storage** 2 x 2.5" SATA HDD (RAID0, RAID1)
1 x CFast socket
- **Display** 1 x DB15 VGA, 1 x DVI-D (Resolution: 1920 x 1080)
- **Watchdog Timer** Programmable 256 levels time interval, from 1 to 255 seconds for each tier
Relay Output Form C
Contact 5A @ 125V_{AC}/ 5A @ 30V_{DC}
Channel 1
- **Relay**

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 (2 x front, 3 x rear, 1 x internal) (2 x front, rev 3.0 compliant for ECU-4784-D56SBE/E15SAE)
- **Expansion** 2 x Domain I/O expansion slots (Each slot supports 1 x PCIe and 2 x PCI)

Environment

- **Operating Temperature** -25 ~ 70°C (-13 ~ 158°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 CFast®: 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-D55SAE** Intel® Core™ dual-core i7 4650U (1.7 GHz) processor with 8 GB RAM, 8 x LAN, 10 x COM, 2 x expansion slots
- **ECU-4784-D56SBE** Intel® Core™ dual-core i7 4650U (1.7 GHz) processor with 16 GB RAM, 8 x LAN, 10 x COM, 2 x expansion slots
- **ECU-4784-C25SAE** Intel® Celeron® 2980U (1.6 GHz) processor with 8 GB RAM, 8 x LAN, 10 x COM, 2 x expansion slots
- **ECU-4784-E15SAE** Intel® Core™ i3 4010U (1.7 GHz) processor with 8 GB RAM, 8 x LAN, 10 x COM, 2 x expansion slots
- **ECU4784D55A1602E-T** ECU-4784-D55SAE with 10 year warranty
- **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)