

ECU-4784

Intel Xeon IEC 61850-3 Certified Power Automation Computers



Features

- 9th Intel® Coffee Lake Xeon® E-2276ML Processor
- DDR4 RAM with ECC, up to 64GB
- Isolated 8 x LAN, 10 x Serial Port Communication Interfaces
- 100-240V_{AC/DC} Redundant Power Supply (configurable option)
- 48V_{DC} PSU option (Configuration option)
- 2 x IO Expansion Slots
- 3 x 2.5" SATA SSD, 1 x M.2 (M Key), Support RAID 0,1
- DVI-D & DVI-I Display Interface
- Programmable LEDs for customized application
- Supports SNMP for remote management
- Trusted Platform Module (TPM)



Specifications

Model		ECU-4784-G5
Computer system	CPU	Intel® Xeon® E-2276ML
	Processor Base Frequency	2.00 GHz
	Intel® Smart Cache	12 MB
	Core Number	6
	TDP	25W
Memory	Technology	Dual-channel DDR4
	Capacity	32 GB / 64 GB
	DIMM Slot	3 x SO-DIMM
Ethernet	Controller	1 x Intel® I219 + 7 x Intel® I210
	Speed	8 x 10/100/1000Base-T, Supports teaming function, PXE, LAN1 supports AMT
	Connector	8 x RJ-45
Storage	2.5" SSD	3 x SATA
	M.2 SSD	1 x M.2 PCIe NVMe 2242/2280 (M Key)
I/O	External USB	3 x USB 2.0 (rear), 2 x USB 3.0 (front)
	Internal USB	1 x USB 2.0
	Serial	2 x Isolated RS-232 (DB9 connectors, Standard), 8 x RS-232/422/485 (Terminal Block) RS-232: 50 ~ 115.2 kbps, RS-422/485: 50 ~ 921.6 kbps 2500V isolation
	Display	1 x DVI-D, 1 x DVI-I
	Expansion Interface	Proprietary PCI/PCIE
Software	Optional Module	RJ45 Port, SFP Port, Isolated Serial Port, Isolated Digital I/O, HSR/PRP, PCIe, Mini-PCIe, PCI-104, IRIG-B
Power	Operating System	Windows10, Windows Server 2016, Linux (Ubuntu 22.04)
	Input Voltage	Redundant Power Supply Power1: 100 ~ 240 VAC, 100 ~ 240 VDC (Inside) / 48VDC (Option) Power2: 100 ~ 240 VAC, 100 ~ 240 VDC / 48 VDC (Option)
Environment	Operating Temperature	-25 ~ 60° C (-13 ~ 140° F) IEC 60068-2-1/2 with 50% CPU & I/O loading
	Relative Humidity	5 ~ 95% RH (non-condensing)
Mechanical	Dimensions (W x H x D)	With handles: 482.6 x 88 x 323.9 mm (19" x 3.5" x 12.8") Without handles: 440 x 88 x 280 mm (17.3" x 3.5" x 11")
	Mounting	2U Rackmount
	Weight	6.0 kg (13.22lbs)
	Ingress Protection	IP20
Certification	EMC	CE, FCC, IEEE 1613, CCC
	Safety	CB, UL, CCC
	Type approval	IEC 61850-3, China Electricity Certificate IV level
	Shock Protection	IEC 60068-2-27: 30 G half sine, 11 ms with SSD
	Vibration Protection	IEC 68-2-64 (Random 1 Oct./min, 1hr/axis.): 2Grms @ 5 ~ 500Hz with SSD
Other	Trusted Platform Module	TPM 2.0
	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

Ordering Information

Part Number	Processor	Memory	2.5" SSD Slots	M.2 / Cfast SSD	PSU	COO
ECU-4784-G57SCE	E-2276ML	32GB	3	1 x M.2 NVMe	1	China
ECU-4784-G57SCU	E-2276ML	32GB	3	1 x M.2 NVMe	1	Taiwan
ECU-4784-G58SCE	E-2276ML	64GB	3	1 x M.2 NVMe	1	China
ECU-4784-G58SCU	E-2276ML	64GB	3	1 x M.2 NVMe	1	Taiwan

Optional List

Part Number	Description
XECU-FSP150-1H35	FSP AC/DC 100 ~ 240V, 150W, W/PFC
9893SW0400E	DC 48V module
UNOP-1000I-BE	PCI & Mini-PCI Expansion Card
UNOP-1000J-BE	PCI-104 & Mini-PCIe Expansion Card
UNOP-1000K-AE	PCIe Expansion Card. PCIe card size limitation: 175 x 111 mm
ECU-P1528PE-B	8-Port SFP Gigabit Base Ethernet Card
ECU-P1528RE-B	8-Port RJ45 Gigabit Base Ethernet Card
ECU-P1618D-B	8 x RS-232/422/485 PCIe w/ ECUP slot
ECU-P1628D-B	8 x Isolated RS-232/422/485 PCIe w/ ECUP slot
ECU-P1624D-B	4 x Isolated RS-232/422/485 & IRIG-B w/ECUP slot
ECU-P1761A-AE	4-ch DI & 4-ch DO & IRIG-B board w/ ECUP slot
ECU-P1524PE-AE	2 x SFP 100Mbps HSR/PRP Card w/ ECUP slot
ECU-P1524PE-GAE	2 x SFP Gigabit HSR/PRP Card w/ ECUP slot

*Note: 2nd power configuration is available upon request via Advantech CTOS