

ECU-4784-V2

IEC 61850-3 Certified Power Automation Computer Based on 14th Generation Intel® Core™ Processors

Preliminary



Features

- 14th Gen Intel® Processor
- 2 x DDR4 SODIMM RAM, up to 64GB
- Tri-display interfaces for SCADA
- 100-240V_{AC/DC} Redundant Power Supply (Optional)
- Supports SNMP for remote management
- Wide operating temperature range, fanless rugged design for harsh environments
- Optional 10-year warranty and long product life cycle for substations
- Supports TPM 2.0

Vertrieb durch



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Specifications

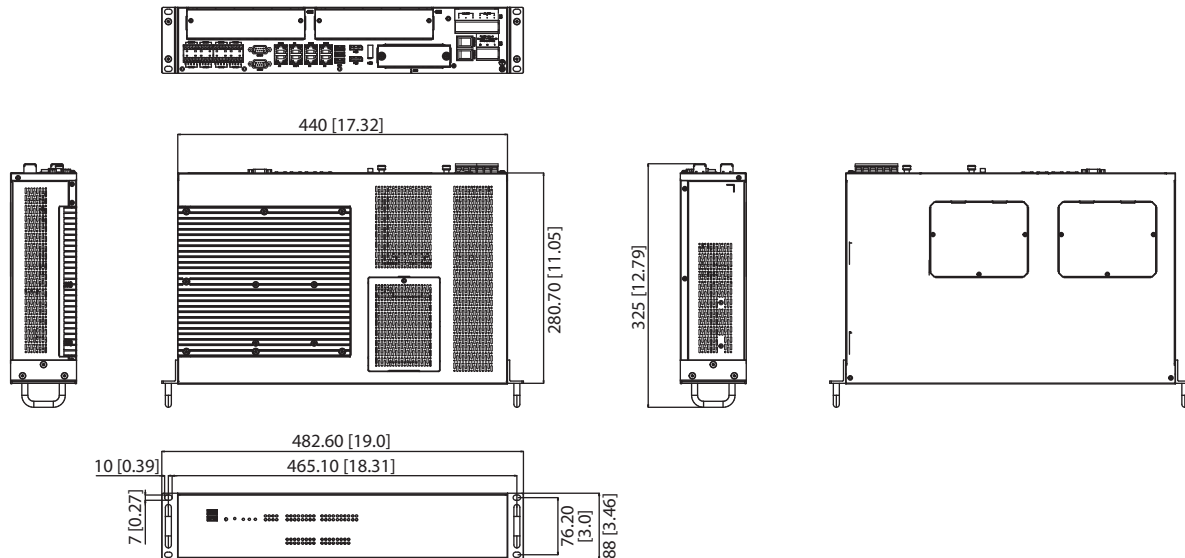
	CPU	i9-14900T	i7-14700T	i9-14901TE	i7-14701TE
Computer system*	Processor Base Frequency	1.1GHz	1.3GHz	2.3GHz	2.1GHz
	Intel Smart Cache	36MB	33MB	36MB	33MB
	Core Number	24 (8 P-cores, 16 E-Cores)	20 (8 P-cores, 12 E-Cores)	8 P-Cores	8 P-Cores
	TDP	Limited to 25W			
	Chipset	Intel® R680E chipset			
Memory*	Technology	Dual-channel DDR4			
	Capacity	Up to 64 GB			
	DIMM Slot	2 x DDR4 SODIMM RAM with ECC			
Ethernet	Controller	8 x Intel® I226			
	Speed	10/100/1000 Base-T, 2,500V isolation. Supports SNMP remote management			
	Connector	8 x RJ-45			
Storage*	2.5" SSD	4 x 2.5" SATA SSDs, up to 9.5mm height, support Intel RST RAID 0, 1, 10			
	M.2 SSD	1 x M.2 2242/2260/2280 M-Key NVMe PCIe Gen. 3 x4			
I/O	External USB	3 x USB 2.0 Gen1 (rear), 1 x USB 2.0 Gen1 (front), 1 x USB 3.2 Gen1 (front)			
	Internal USB	2 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	3 x DP++ 1.2 up to 4K @ 60Hz			
Expansion Interface	Proprietary PCIe	2 slots for ECU-P expansion card series			
	Optional Module	RJ45 Port, SFP Port, Isolated Serial Port, HSR/PRP			
Software	Operating System	Windows 11, Windows 10, Windows Server 2022, Linux (Ubuntu 24.04)			
Power	Input Voltage	Redundant Power Supply			
		Power1: 100 ~ 240 V _{AC} , 100 ~ 240 V _{DC} (Inside) / 48V _{DC} (Option) Power2: 100 ~ 240 V _{AC} , 100 ~ 240 V _{DC} / 48 V _{DC} (Option)			
Environment	Operating Temperature	w/ 1x PRP card, -25°C ~ +60°C w/ 2x PRP card, -25°C ~ +50°C			
	Storage Temperature	-40 to 85°C			
	Relative Humidity	Operating, 95% RH @ 40°C, non-condensing Non-operating, 95% RH @ 60°C, 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	7.6 kg (16.7lbs), TBD			
	Ingress Protection	IP20			
Certification	EMC	CE, FCC, IEC 61850-3			
	Safety	CB, UL			
	Type approval	IEC 61850-3			
	Shock Protection	IEC 60068-2-27: 20G half sine, 11 ms with SSD			
	Vibration Protection	IEC 60068-2-64: Random 1 Oct./min, 1hr/axis 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 @ 250V _{AC} / 5A @ 30V _{DC} Channel 1			

*To be assembled in the Advantech CTOS center.



Dimensions

Unit: mm



Ordering Information

Part Number	Description	PSU	COO
ECU-4784-V2-S1	RPL-S Refresh, AC/DC, 8xLAN, 10xCOM, 3xDP, 2x ECU-P expansion slots	1	Taiwan

Optional List

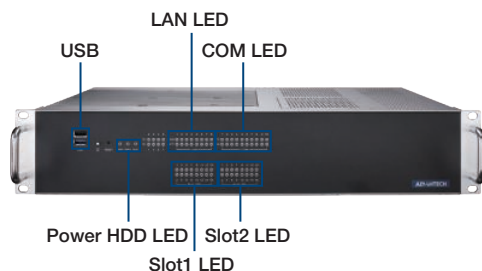
Part Number	Description
XECU-FSP150-1H35	O/F A/D 100-240V 150W 24V W/PFC
UNOP-1000K-AE	PCIe Expansion card w/ ECUP slot
ECU-P1618D-B	8 x RS-232/422/485 PCIe w/ ECUP slot
ECU-P1628D-B	8 x Isolated RS-232/422/485 PCIe w/ ECUP slot
ECU-P1528RE-B	8 x RJ45 Gigabit LAN card w/ ECUP slot
ECU-P1528PE-B	8 x SFP Gigabit LAN card 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
ECU-KIT-478401	48V DC power supply kit for ECU-4784-V2

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Front View



Rear View

