

ECU-479

IEC-61850-3 Certified Power Automation Computer Based on 13th Generation Intel® Core™ Processors

NEW



Features

- 13th Gen Intel® Processor with 8+8 Cores
- Quad display interfaces for SCADA and more multi-display use cases
- Support for a RAID card, HSR/PRP expansion card, and redundant PSU
- Supports Intel® AMT, iBMC, 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

Introduction

The ECU-479 is an IEC 61850-3 and IEEE 1613 certified product that provides high reliability and stability for power automation applications. The ECU-479 boasts a fanless, durable design, high CPU performance, easy maintenance, versatile expansion options, and a wide range of communication interfaces. Additionally, it supports virtualization technology, making it well suited for the digitalization of power substations.

Specifications

General

- **Certification** CE, FCC, IEC-61850-3, IEEE-1613, CB/UL
- **Power*** 2 x hot-swappable power supply, 150W
Power1 (default): 100 ~ 240 V_{AC}, 100 ~ 240 V_{DC}
Power2 (optional): 100 ~ 240 V_{AC}, 100 ~ 240 V_{DC}
- **Dimensions (W x D x H)** 483 x 478 x 88 mm
- **Enclosure** SECC and aluminum
- **Weight** 13.0 kg
- **Mounting** 2U Rackmount
- **Cooling** Fanless

*Please refer to user manual for hot-swap operation.

System Hardware

- **CPU*** 13th Gen Intel® Core™ Processors, up to Core™ i7
- **Chipset** Intel® R680E chipset
- **Memory*** 2 x DDR4 SODIMM RAM with ECC, up to 64GB
- **Storage*** 4 x 2.5" hot-swappable SATA SSDs, up to 9.5mm height
1 x M.2 2280 M-Key NVMe PCIe Gen. 3 x4 / SATA
Supports Intel® RST RAID 0,1,5,10
- **Display** 4 x DP++ 1.2 up to 4K @ 60Hz
- **Watchdog Timer** Programmable, with 256 time intervals, from 1 to 255 seconds for each tier
- **Relay** Relay Output Form C
Contact 5A @ 125V_{AC}/ 5A @ 30V_{DC}
Channel 1

*To be assembled in the Advantech CTOS center.

Communication Interface

- **LAN** 4 x 10/100/1000 Base-T RJ-45 ports
2,500V isolation
Supports iBMC, Intel® AMT, SNMP remote management
- **Serial Port** 2 x RS-232/422/485 (DB9 connectors)
2,500V isolation
50 - 115.2 kbps
- **USB** 3 x USB 3.2 Gen1 at rear I/O
2 x USB 3.2 Gen1 at front I/O
1 x internal USB 2.0
- **Expansion** 1 x standard PCIe x16 slot Gen. 4 low profile
3 x standard PCIe x4 slot Gen. 3 low profile
1 x PCIe + PCI interface for ECU-P card extension

Environment

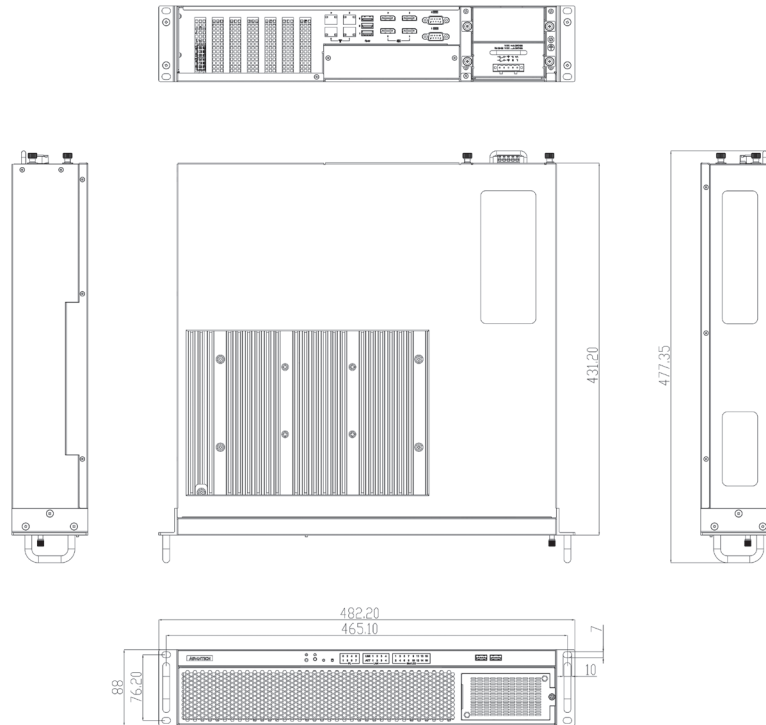
- **Operating Temperature** -25 to 70°C
(Depends on CPU model and configuration)
- **Storage Temperature** -40 - 85°C
- **Relative Humidity** Operating, 95% RH @ 40°C, non-condensing
Non-operating, 95% RH @ 60°C, non-condensing
- **Shock Protection** IEC 60068-2-27: 20G half sine, 11 ms
- **Vibration Protection** IEC 60068-2-64: Random 1 Oct./min, 1hr/axis.
- **IP Rating** IP20

Operating System

- **Windows** Windows 10
Windows 11
Windows Server 2022
- **Linux** Ubuntu 22.04

Dimensions

Unit: mm



CPU Compatibility List

| Part Number | Description |
|-------------------|-----------------------------------|
| 96MPI-13700TE-16E | Intel® Core™ i7-13700TE Processor |
| 96MPI-13500TE-14E | Intel® Core™ i5-13500TE Processor |
| 96MPI-13100TE-4E | Intel® Core™ i3-13100TE Processor |

Ordering Information

- ECU-479-V1-S1** RPL-S Processors, 1 x PSU (AC/DC), 4 x LAN, 4 x DP, 1 x EP Slot, 4 x PCIe

RAM Compatibility List

| Part Number | Size | Speed | Operating Temperature | ECC |
|--------------------|------|-------|-----------------------|-----|
| SQR-SD4I32G3K2SEAB | 32GB | 3200 | -40 - 85°C | Y |
| SQR-SD4I16G3K2SECB | 16GB | 3200 | -40 - 85°C | Y |
| SQR-SD4I8G3K2SEBCB | 8GB | 3200 | -40 - 85°C | Y |
| AQD-SD4U32E32-SBW | 32GB | 3200 | -40 - 85°C | Y |
| AQD-SD4U16E32-SEW | 16GB | 3200 | -40 - 85°C | Y |
| AQD-SD4U8GE32-SEW | 8GB | 3200 | -40 - 85°C | Y |

Optional Accessories

| Part Number | Description |
|---------------------|---|
| FRU-ECUPWR-100A | PSU module 150W 100-240Vac/dc |
| 96RC-SAS-4P-PE-AD6* | Adaptec 3101E-4i SAS PCIe x8 RAID card. Supports RAID 0,1,10. |
| 1700034612-01 | Mini SAS HD to SATA 22Px4 cable |
| 1700024985-01 | Power cable 4P-5.08 to 4P-2.5 |
| 96NIC-1G2P-PE-IN3 | Intel® NIC 100/1000M dual RJ-45 PCIe x4 |
| PCIE-1131PS-00A1E | Intel® I350 Quad 1G SFP PCIe x4 |
| PCA-TPMSPI-00A1 | TPM 2.0 module by SPI for CPU cards |

*Required to order with 1700034612-01 x1, 1700024985-01 xN. (N=q'ty of 2.5" SSD)

Tento produkt můžete zakoupit u společnosti AutoCont IPC a.s.



AutoCont IPC a.s.

Váš dodavatel průmyslových počítačů, komponent a speciálních průmyslových IT systémů.

 Uhlířská 1064/3, 710 00 Ostrava, Česká republika

 obchod@autocont-ipc.cz

 +420 552 301 002

 www.autocont-ipc.cz



PRŮMYSLOVÉ POČÍTAČE

fanless embedded PC, do racku, ...



POČÍTAČE S DISPLEJEM

panelové PC, terminály, do vozidel, ...



AUTOMATIZACE A SBĚR DAT

převodníky, karty, moduly, switche, ...



PERIFERIE A KOMPONENTY

monitory, klávesnice, desky, skříně, ...



NOTEBOOKY A TABLETY

odolné, windows, android, IP65, ...



INFORMAČNÍ KIOSKY

interiérové, venkovní, ...



MEDICÍNSKÁ TECHNIKA

počítače, tablety, LCD, klávesnice, ...



SOFTWAREVÁ ŘEŠENÍ

pro výrobu, zaměstnance, kiosky, ...



PŘEJÍT DO E-SHOPU

eshop.autocont-ipc.cz



DOPRAVA ZDARMA

Doprava zdarma v ČR a SR při objednávce nad 10 000 Kč bez DPH nebo nad 400 EUR.



PRODLOUŽENÁ ZÁRUKA

Záruka 2 roky na vyráběné počítače s možností jejího prodloužení až na 5 let.



ODMĚNA ZA VĚRNOST

Pravidelní zákazníci u nás nakupují za nižší ceny. Výše slevy se odvíjí od realizovaného obrátu.



SERVIS ON-SITE A IN-TIME

K projektovým dodávkám nabízíme rozšířenou podporu a servis s garancí výměny zařízení do 48 hodin.