ECU-479F

Power Automation Computer Based on 13th Generation Intel® Core™ Processors

Coming Soon

Features

- 13th Generation Intel® Core™ processors support up to 16 cores
- 2 x DDR4 SODIMM RAM with ECC, up to 64GB
- 2 x hot-swappable PSU (100-240V_{DC}/V_{AC})
- 4 x 2.5" hot-swappable HDD/SSD, 1 x M.2 2280 NVMe
- 4 x LAN, 2 x serial ports with isolation protection
- 4 x Display Port++ 1.2 up to 4K
- 3 x PCIe x4 Gen. 3, 1 x PCIe x16 Gen. 4, and 1 x ECU-P Slot
- Supports iBMC and compatible with VMware vSphere
- Supports TPM 2.0 by optional TPM 2.0 module

vmware READY   CE FCC   RoHS COMPLIANT 2002/95/EC

Introduction

The ECU-479F is a Electricity IV level for China certified product that provides high reliability and stability for power automation applications. ECU-479F features a fanless robust design, high CPU performance, easy maintenance, flexible expansion, and rich communication interface. It supports virtualization technology that makes ECU-479F suitable for power substation digitalization.

Specifications

General

- **Certification** — CE, FCC, Electricity IV level for China
- **Power Requirements** — 2 x power supply, 350W
  Power1: 100 ~ 240 V_{AC}/50Hz or 210~ 280V_{DC}
  Power2: 100 ~ 240 V_{AC}/50Hz or 210~ 280V_{DC}
- **Dimensions (W x D x H)** — 440 x 430 x 88 mm
- **Enclosure** — SECC and aluminum
- **Weight** — 10.0 Kg
- **Mounting** — 2U Rackmount
- **Cooling** — Fan

System Hardware

- **CPU** — Compatible with 12th Generation Intel® Core™ Processors (To be assembled in Advantech CTOS center)
- **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 256 levels time interval, from 1 to 255 seconds for each tier

Communication Interface

- **LAN** — 4 x 10/100/1000 Base-T RJ45 ports 2,500V isolation
  Supports IBMC, Intel® AMT, SNMP remote management
- **Serial Port** — 2 x RS-232/422/485 (DB9 connectors, Standard) 2,500V isolation
- **Serial Port Speed** — RS-232/422/485: 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 ECUP card extension

Environment

- **Operating Temperature** — -15 ~ up to 55 °C (Depends on CPU model and configuration)
- **Non-operating Temperature** — -40 ~ 85 °C
- **Operating Humidity** — 95% RH (non-condensing)
- **Storage Humidity** — 95% RH (non-condensing)
- **Shock Protection** — IEC 60068-2-27: 20G half sine,11 ms
- **Vibration Protection** — Vibration Protection IEC 60068-2-64: Random 2GRMS With SSD ,1Grms With HDD, 1hr/axis.