ECU-4553

TI Cortex4 A8 Power Automation Computer with 4 x LAN, 16 x COM Ports



Features

- TI Cortex A8 800MHz CPU
- DDR3L 1GB RAM
- 1GB Micro-SD card for system storage; 1 x Micro-SD Slot
- 1 x IRIG-B
- 16 x RS-232/485 isolated serial ports
- 4 x 10/100 Base-T Ethernet ports
- 2 x CAN2.0B
- Support Data logger on SD card
- Operation System: RT-Linux
- Operation Temperature -40 ~ 70°C



Introduction

For solar power, electricity and factory related applications which require Ethernet and Serial Port communication solutions, Advantech has released the ECU-4553 RISC-based industrial communication gateway. ECU-4553 has an open platform design with Cortex A8 processor, 16 x RS-232/485 isolated serial ports, 4x10/100 Ethernet ports and operating temperature range from -40 to 70°C. WithLinux operating system and open TagLink SDK, which enable to system integrators to develop applications which precisely ft their need.

Specifications

General

Certification
 Mounting
 Power Consumption (typical)
 10 W

• Power Requirements $100 \sim 240 \text{ V}_{AC}$, $100 \sim 240 \text{ V}_{DC}$

System

CPU TI Cortex A8, 800MHzMemory DDR3L 1GB

Indicators
 LEDs for Power, LAN (LINK, ACT), CAN (Tx, Rx)

Serial (Tx, Rx), Programmable

• **Storage** 1GB Micro-SD card for system storage

• SD Slot 1 x Micro-SD slot

Watchdog Yes
Real-time clock Yes
Node ID 8-bit

Communication

• **Serial Port** 16 x RS-232/48 5 (Terminal Block)

Isolation
 3000 V_{DC}

Serial Port Speed
 Ekhernet Port
 RS-232/RS-485: 50 ~ 115.2 kbps
 4 x 10/100 Base-T RJ-45 ports

USB Port 1 x USB2.0B
 CAN 2 x CAN2.0 B
 Isolation 3000 V_{DC}

Time Synchronization Interface

■ **Type** IRIG-B (RS-422)

- Channel 1

Support Format
 Message Syntax
 IRIG-B00X according to IRIG STANDARD 04, 200-98
 QQQHHMMSS (year, day, hour, minute & second)

Resolution of Time 1s

Power Fail

Relay Output Form C

Contact 5A @ 125V_{AC}/ 5A @ 30V_{DC}

Channel 1

Software

OS Support RT-Linux 3.12Programming Linux C

Environment

• Operating Temperature $-40 \sim 70^{\circ}\text{C}$ • Storage Temperature $-40 \sim 85^{\circ}\text{C}$

- Humidity 5 ~ 95% (non-condensing)

Ordering Information

■ ECU-4553-R12SAE TI Cortex A8 Power Automation Computer with 4 x LAN, 16 x COM, 2 x CAN, 1 x IRIG-B

Storage Solution

96FMMSDI-4G-ET-AT1
 96FMMSDI-8G-ET-AT1
 ATP 4G MICRO SD CARD I-GRD SLC(G)
 ATP 8G MICRO SD CARD I-GRD SLC(G)

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