

# ECU-4553

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

NEW



ECU-4553-R12SAE

ECU-4553-LR21SBE/CR21SBE



### Features

- TI Cortex A8 800MHz /600MHz CPU
- DDR3L 1GB /512MB RAM
- 16 x RS-232/485 isolated serial ports
- 4 x 10/100 Base-T Ethernet ports
- 1 x IRIG-B
- 2 x CAN2.0B (optional)
- 1GB /8GB for system storage, 1 x Micro-SD Slot
- Operation System: RT-Linux
- Operation Temperature: -40 ~ 70°C

### Introduction

ECU-4553 is an industrial communications computer with Cortex A8, 4 x LAN, 16 x COM ports for power automation applications.

### Specifications

#### General

- **Certification** CCC, CE, FCC
- **Dimensions (W x D x H)** 440 x 220 x 44mm (ECU-4553-R12SAE)  
440 x 180 x 44mm (ECU-4553-LR21SBE / CR21SBE)
- **Power Requirements** 100 ~ 240VAC/DC (ECU-4553-R12SAE)  
100 ~ 240VAC (ECU-4553-LR21SBE / CR21SBE)  
(Supports dual power supply for ECU-4553-LR21SBE)
- **OS Support** Linux 4.9
- **Enclosure** SECC & Aluminum
- **Mounting** 1U Rack mount
- **System Design** Fanless

#### System Hardware

- **CPU** TI Cortex A8, 800MHz (ECU-4553-R12SBE)  
TI Cortex A8, 600MHz  
(ECU-4553-LR12SBE / CR21SBE)
- **Memory** 1GB DDR3L (ECU-4553-R12SBE)  
512MB DDR3L (ECU-4553-LR21SBE / CR21SBE)
- **Storage** 1GB Micro-SD, 1 x Micro-SD Slot  
(ECU-4553-R12SAE)  
8GB, 1 x Micro-SD Slot  
(ECU-4553-LR21SBE / CR21SBE)
- **Display** VGA
- **Watchdog Timer** Programmable 256 levels time interval,  
from 1 to 255 seconds for each tier
- **Indicators** LEDs for Power, LAN (LINK, ACT), CAN (Tx, Rx)  
Serial (Tx, Rx), Programmable LED

#### Communication

- **Serial Port** 16 x RS-232/485, 2500V isolation
- **Serial Port Speed** RS-232/485: 50~115.2kbps
- **LAN** 4 x 10/100 Base-T Ethernet ports
- **USB** 1 x USB2.0
- **CAN** 2 x CAN2.0B, 2500V isolation  
(ECU-4553-R12SAE / CR21SBE)

#### Time Synchronization Interface

- **Type** IRIG-B (RS-485)
- **Channel** 1
- **Resolution of Time** 1s

#### Power Fail

- **Relay** Relay Output Form C
- **Contact** 5 A @ 125 VAC /5 A @ 30 Vdc
- **Channel** 1

#### Environment

- **Operating Temperature** -40 ~ 70°C
- **Storage Temperature** -40 ~ 85°C
- **Humidity** 5 ~ 95%

### Ordering Information

- **ECU-4553-R12SAE** TI Cortex A8, 800MHz, 1GB DDR3L  
4 x LAN, 16 x COM, 2 x CAN, 1 x IRIG-B
- **ECU-4553-LR21SBE** TI Cortex A8, 600MHz, 512MB DDR3L  
4 x LAN, 16 x COM, 1 x IRIG-B
- **ECU-4553-CR21SBE** TI Cortex A8, 600MHz, 512MB DDR3L  
4 x LAN, 16 x COM, 2 x CAN, 1 x IRIG-B
- **XECU-FSP065-P35 (\*)** FSP 100 ~ 240VAC, 65W, W/PFC  
(Dual power supply for ECU-4553-LR21SBE)

#### Storage Solution

- **96FMMSDI-4G-ET-AT1** ATP 4G Micro SD I-GRD SLC(G)
- **96FMMSDI-8G-ET-AT1** ATP 8G Micro SD I-GRD SLC(G)