ECU-1152

TI Cortex A8 Industrial Communication Gateway with 2 x LAN and 6 x COM Ports



Features

- TI Cortex A8 800 MHz CPU
- DDR3L512 MB RAM
- 1 GB Micro SD card for system storage
- 1 x Micro SD slot
- 6 x RS-232/485 isolated serial ports
- 2 x 10/100 Base-T Ethernet ports
- 1 x Mini-PCle for Wi-Fi/Cellular/4G
- Supports web access for remote online monitoring
- Supports Micro-SD cards and online firmware updates
- Supports Modbus and IEC-60870 protocol
- Supports data logging to Micro-SD card
- RTLinux operating system
- -40 ~ 70°C operating temperature range

Introduction

For solar power, electricity, and factory-related applications that require comprehensive wireless and Ethernet communication solutions, Advantech developed its ECU-1152 RISCbased industrial communication gateway. ECU-1152 features an open platform design with a Cortex A8 processor, six RS-232/485 isolated serial ports, two 10/100 Ethernet ports, and an operating temperature of -40 ~ 70°C. ECU-1152 is equipped with a Linux operating system and open Edgelink SDK to enable system integrators to develop applications specific for their application requirements.

Specifications

General

- Certification
- Mounting
- Power Consumption .
- Power Requirements

System

- CPU
- Memory
- Indicators
- Storage
- SD Slot .
- Watchdog
- Real-Time Clock
- Node ID

Communication

- Serial Port
- Serial Port Speed
- . Ethernet Port
- USB Port
- Wireless (Optional)

1 x USB Interface: 1x Mini PCIe (full size) Type: Wi-Fi/Cellular/4G Signal: USB

Advantech Edgelink Studio

Mitsubishi,Siemens,Omron,Delta

Modbus, IEC-60870

RS-232/RS-485: 50 ~ 115200 bps

2 x 10/100 Base-T RJ-45 ports

CE. FCC (No RED certification)

1 GB Micro SD card for system storage

2.4W @ 24V_{DC} (typical)

TI Cortex A8, 800MHz

DDR3L 512MB

Serial (Tx, Rx)

1 x Micro SD

6 x RS-232/485 Isolation 3000 V_{DC}

RTLinux 3.12

Linux C

Yes

Yes

8-bit

Wall/ DIN rail

 $10 \sim 30 V_{DC}$

Software

- OS Support
- **Configuration Tool**
- Protocol Support
- Programming
- PLC driver Support

Environment

- **Operating Temperature** -40 ~ 70°C
- -40~85°C Storage Temperature 5 ~ 95% (non-condensing)
- Humidity

Ordering Information

- ECU-1152-R11ABE
- TI Cortex A8 industrial communication gateway with 2 x LAN, 6 x COM, 1 x Mini PCIe ECU-1152 w/ Edgelink SW DIN-Rail buckle
- ECU-1152TL-R11ABE
- 1950020136T001

Cellular Solution (SIM card not included)

- 96PD-EC25EFA
- 1750006264
- SMA(F) cable, 15 cm Dipole antenna, 11 cm



Wi-Fi Solution 96PD-RYUW131 2.4GHz Wi-Fi Full/Half Size Mini PCle Card 1750006043

- 1750000318

- 96FMMSDI-4G-ET-AT1 ATP 4G MICRO SD CARD I-GRD SLC(G)
- Programmable LEDs for Power, LAN (LINK, ACT),

Storage Solution

- 96FMMSDI-8G-ET-AT1 ATP 8G MICRO SD CARD I-GRD SLC(G)
- SMA(M) cable. 15 cm 2dBi antenna for testing, 11 cm LTE Cat 4 Module with GNSS
- 1750005865