ECU-1251

TI Cortex A8 Industrial Communication Gateway with 2 x LAN, 4 x COM Ports



Features

- TI Cortex A8 800MHz CPU
- DDR3L256MB RAM
- 1GB Micro-SD card for system storage
- 1 x Micro-SD Slot
- 4 x RS-232/485 isolated serial ports
- 2 x 10/100 Base-T Ethernet ports
- 1 x Mini-PCle for WIFI/Cellular/4G
- Support web service for remotely on-line monitoring
- Support SD card & on-line firmware update
- Support Modbus, IEC-60870-101/104 protocol
- 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 a total wireless and Ethernet communication solutions, Advantech has released the ECU-1251 RISC-based industrial communication gateway. ECU-1251 has an open platform design with Cortex A8 processor, up to four RS-232/485 isolated serial ports, two 10/100 Ethernet ports and operating temperature range of -40--70°C. WithLinux operating system and open Edgelink SDK, which enable to system integrators to develop applications which precisely fit their

Specifications

General

Certification CE, FCC (RED Compliance) Mounting Wall-Mount/ DIN-Rail Power consumption (typical) 2.4W @ 24Vnc Power Requirements $10 \sim 30 V_{DC}$

System

- CPU TI Cortex A8, 800MHz Memory DDR3L 256MB Indicators

LEDs for Power, LAN (LINK, ACT). Serial (Tx, Rx), Programmable Storage 1GB Micro-SD card for system storage

SD Slot 1 x Micro-SD slot

Watchdog Real-time clock Υρς Node ID 8-bit

Communication

4 x RS-232/485 Serial Port Isolation 3000 V_{DC}

RS-232/RS-485: 50 ~ 115200 bps Serial Port Speed Ethernet Port 2 x 10/100 Base-T RJ-45 ports **USB Port** 1 x USB2.0 Interface: 1x Mini-PCIe (Full-size) Wireless (Optional)

Type: WIFI/Cellular/4G

Signal: USB

Software

 OS Support RT-Linux 4.9

 Configuration Tool Advantech Edgelink Studio

Protocol Support Modbus, IEC-60870-101(master)/ 104(slave)

 Programming Linux C

Environment

 Operating Temperature -40~70°C Storage Temperature -40~85°C

All product specifications are subject to change without notice.

 Humidity 5~95% (non-condensing)

Ordering Information

■ ECU-1251TL-R10AAE TI Cortex A8 Industrial Communication Gateway with 2 x LAN, 4 x COM, 1 x Mini-PCle

Wi-Fi Solution

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

1750006043 SMA(M) cable, 15 cm 1750000318 2dBi antenna for testing, 11 cm

Cellular Solution (SIM card is not included)

96PD-EC25EFA LTE Cat 4 Module with GNSS SMA(F) Cable, 15 cm 1750006264 1750005865 Dipole Antenna, 11 cm

Storage Solution

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

