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/3G/GPRS/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 TagLink SDK, which enable to system integrators to develop applications which precisely fit their need.

Specifications

General

■ Certification CE, FCC
■ Mounting Wall-Mount/ DIN-Rail
■ Power consumption (typical) 2.4W @ 24V_{DC}
■ Power Requirements 10 ~ 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 Yes
 Real-time clock Yes

Communication

Node ID

8-bit

Software OS Support

Configuration Tool
 Protocol Support
 Programming
 Advantech TagLink Studio
 Modbus, IEC-60870-101(master)/ 104(slave)
 Linux C

RT-Linux 3.12

Environment

Operating Temperature
 Storage Temperature
 -40~85°C

Humidity 5 ~ 95% (non-condensing)

Ordering Information

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

Wi-Fi Solution

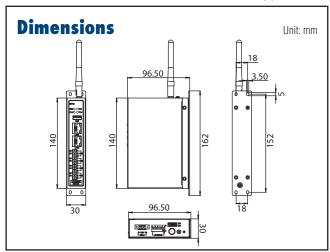
ECU-1251TL-R10AE
 1960047012T204
 9656EWMG00E
 EWM-W150H02E
 1750006043
 1750000318
 ECU-1251 w/ TagLink
 DIN-Rail buckle
 Half to full-size Mini PCle bracket pack
 Half-size mini card, supports 802.11bgn
 SMA(M) cable, 15 cm
 2dBi antenna for testing, 11 cm

3G/GPRS Solution (SIM card is not included)

 EWM-C109F601E
 1750006264
 1750005865
 6-band HSPA Cellular Module with SIM Holder SMA(F) Cable, 15 cm Dipole Antenna, 11 cm

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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