ECU-1252

TI Cortex A9 Industrial Communication Gateway with 2 x CAN, 2 x LAN, 2 x COM



Features

- TI Cortex A9 600MHz CPU
- DDR3L 2GB RAM
- 16GB eMMC for system storage
- 1 x Micro-SD Slot
- 2 x CAN port
- 2 x RS-232/485 isolated serial ports
- 2 x 100/1000 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

C E FCC ROHS

Introduction

For solar power, electricity and factory related applications which require a total wireless and Ethernet communication solutions, Advantech has released the ECU-1252 RISC-based industrial communication gateway. ECU-1252 has an open platform design with Cortex A9 processor, up to 2 RS-232/485 isolated serial ports, 2 CAN ports, 2 100/1000 Ethernet ports and operating temperature range of -40~70°C. With Linux operating system and open Edgelink configure tool, which enable system integrators to develop applications precisely fit their need.

Specifications

General

Certification

Mounting

Power consumption (typical)

Power Requirements

CE, FCC

Wall-Mount/ DIN-Rail 2.4W @ 24V_{DC} 10 ~ 30 V_{DC}

System

CPU Memory

Indicators

Storage SD Slot

Watchdog

Real-time clock

Node ID

Security

TI Cortex A9, 600MHz

DDR3L 2GB

LEDs for Power, Run, Error, LAN (LINK, ACT),

Serial (Tx, Rx), Programmable 16GB eMMC for system storage

1 x Micro-SD slot

Yes Yes

TPM 2.0 (Optional)

Communication

Serial Port Isolation

Serial Port Speed

Ethernet Port

CAN Port Wireless (Optional)

2 x RS-232/485 3000 V_{DC} 50 ~ 115200bps

2 x 100/1000 RJ-45 ports

2 x CAN (2PIN) Interface: 1x Mini-PCle (Full-size)
Type: WIFI/Cellular/4G

Signal: USB

Software

OS Support

Configuration Tool Protocol Support

RT-Linux 4.9 Advantech Edgelink Studio

DNP3.0 Client & Server, OPC-UA Client & Server, BACNet/IP Client & Server, Modbus RTU/TCP Master & Slave, IFC-60870-5-101 Master

IEC-60870-5-103 Master IEC-60870-5-104 Master & Slave

Programming Linux C, Python

Environment

Operating Temperature Storage Temperature

Humidity 5~95% (non-condensing)

Ordering Information

ECU-1252TL-R22AA

TI Cortex A9 Industrial Communication Gateway with 2 x CAN, 2 x LAN, 2 x COM Ports

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 1750006264

1750005865

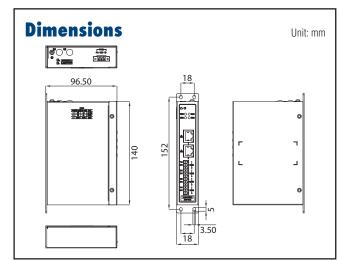
96PD-MDG200AU0 1750006264

LTE Cat 4 Module with GNSS SMA(F) Cable, 15 cm Dipole Antenna, 11 cm AMIC 4G.Cat4 Socket Modem(US)

SMA(F) Cable, 15 cm Antenna AN0727-64SP6BSM 1750008303-01

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)



-40~85°C