ECU-1051TL

Cloud enabled Intelligent Communication Gateway for IIOT application



Features

- TI Cortex A8 600MHz CPU with DDR3L 256MB RAM
- Support web service for remotely on-line monitoring
- Firmware update by SD card and online update
- Data logger on SD card
- · Support dual SIM slots for communication redundant
- Support MQTT Client for cloud communication
- Wide Operating temperature: -40 ~ 70°C

CEFCC ROHS

Introduction

For facility monitoring, distributed solar power, smart factory sector, especially cloud based applications which require a total wireless and Ethernet communication solutions, Advantech has released the ECU-1051TL RISC-based industrial communication gateway. ECU-1051TL has an open platform design with Cortex A8 processor, 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 need.

Specifications

General

Certification
 Mounting
 Power consumption (typical)
 CE, FCC (No RED certification)
 Wall-Mount/ DIN-Rail
 2.4W @ 24V_{DC}

Power Requirements 10 ~ 30 V_{DC}

System

CPU TI Cortex A8, 600MHz
Memory DDR3L 256MB

Indicators
LEDs for Power, LAN (LINK, ACT), Programmable

Storage 512MB NAND Flash 1 x Micro-SD slot

Watchdog Yes Real-time clock Yes

Communication

Serial Port Serial Port: 2 x RS232/RS485(isolation optional)

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

Type: WIFI/Cellular/4G

Signal: USB

Communication Protocol

Drivers IEC-60870-5-104

Modbus TCP/RTU

FTP/HTTP/DHCP/TCP/IP 100+ PLC drivers

PLC Driver Support 100+ PLC drivers
Data Logger Real-time datalogger
Database uplink ODBC/ FTP

Programming support
 Linux C, Restful API, Web service API.

Event Manager

Software

OS Support RT-Linux 3.12

Configuration Tool Advantech Edgelink Studio

Environment

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

Humidity 5 ~ 95% (non-condensing)

Ordering Information

■ ECU-1051TL-R10AAE TI Cortex A8 industrial communication gateway with Edgelink

Cellular Solution (SIM card is not included)

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

WIFI Solution (recommended)

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

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

