# 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

# 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) Power Requirements

### System

- CPU
- Memorv
- Indicators Storage
- SD Slot
- Watchdog
- . Real-time clock

### Communication

- Serial Port
- Serial Port Speed

- Drivers
- PLC Driver Support

### Software

- **OS Support**

- Humidity

CE, FCC (No RED certification) Wall-Mount/ DIN-Rail 2.4W @ 24VDC

10 ~ 30 V<sub>DC</sub>

TI Cortex A8, 600MHz DDR3L 256MB LEDs for Power, LAN (LINK, ACT), Programmable 512MB NAND Flash 1 x Micro-SD slot

Yes Yes

- Ethernet Port
- . Wireless (Optional)

# **Communication Protocol**

- Data Logger
- Database uplink
- Programming support

. **Configuration Tool** 

### Environment

- **Operating Temperature**
- Storage Temperature

Serial Port: 2 x RS232/RS485(isolation optional) RS-232/RS-485: 50 ~ 115200 bps 2 x 10/100 Base-T RJ-45 ports Interface: 1x Mini-PCIe (Full-size) Type: WIFI/Cellular/4G Signal: USB

IEC-60870-5-104 Modbus TCP/RTU MQTT FTP/HTTP/DHCP/TCP/IP 100+ PLC drivers Real-time datalogger

ODBC/ FTP Linux C, Restful API, Web service API. Event Manager

RT-Linux 3.12 Advantech Edgelink Studio

-40~70°C -40~85°C 5 ~ 95% (non-condensing)

# **Ordering Information**

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

# Cellular Solution (SIM card is not included)

- 96PD-EC25EFA
- 1750006264
- 1750005865

### WIFI Solution (recommended)

- 96PD-RYUW131
- 1750000318

## **Storage Solution**

**Dimensions** Unit: mm 30 21 0 ٦ 114.05 104.05 92 0 93.50 3 50 00000

AD\ANTECH **Power & Energy Solution** 

### All product specifications are subject to change without notice.

### Last undated: 18-Dec-2020

- ATP 4G MICRO SD CARD I-GRD SLC(G) ATP 8G MICRO SD CARD I-GRD SLC(G)
- 2.4GHz Wi-Fi Full/Half Size Mini PCIe Card SMA(M) cable, 15 cm 2dBi antenna for testing, 11 cm

LTE Cat 4 Module with GNSS SMA(F) Cable, 15 cm

# 96FMMSDI-4G-ET-AT1 96FMMSDI-8G-ET-AT1



Dipole Antenna, 11 cm

# 1750006043