# ECU-1051TL

# **Cloud enabled Intelligent Communication Gateway for IIOT** application

# NEW a filit

### **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. With Linux operating system and open TagLink 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
- Memory
- Indicators Storage
- SD Slot
- Watchdog
- Real-time clock

#### Communication

- Serial Port
- Serial Port Speed
- Ethernet Port
- Wireless (Optional)
- **Communication Protocol** Drivers
- PLC Driver Support
- Data Logger
- Database uplink Programming support .

#### Software

- OS Support
- Configuration Tool

#### **Environment**

- **Operating Temperature**
- Storage Temperature
- Humidity

CE, FCC 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

Serial Port: 2 x RS232/RS485(isolation optional) RS-232/RS-485: 50 ~ 115.2 kbps 2 x 10/100 Base-T RJ-45 ports Interface: 1x Mini-PCle (Full-size) Type: WIFI/3G/GPRS/4G Signal: USB

IEC-60870-5-104 Modbus TCP/RTU MOTT 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 TagLink Studio

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

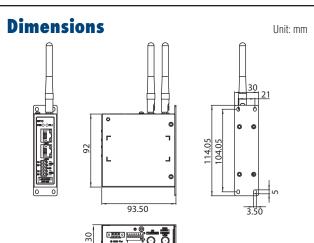
## **Ordering Information** TI Cortex A8 industrial communication gateway with

- ECU-1051TL-R10AAE
  - TagLink ECU1051TL-ES
- TI Cortex A8 industrial communication gateway **3G/GPRS Solution (SIM card is not included)** 
  - EWM-C109F601E 6-band HSPA Cellular Module with SIM Holder
- 1750006264
- 1750005865

- 2.4GHz Wi-Fi Full/Half Size Mini PCle Card Half to full-size Mini PCle bracket pack(optional)

SMA(F) Cable, 15 cm

- 1750006043
- 1750000318
- ATP 4G MICRO SD CARD I-GRD SLC(G) ATP 8G MICRO SD CARD I-GRD SLC(G)



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

- Dipole Antenna, 11 cm WIFI Solution (recommended)
- 96PD-RYUW131
  - SMA(M) cable, 15 cm
- **Storage Solution**
- 96FMMSDI-4G-ET-AT1 96FMMSDI-8G-ET-AT1

2dBi antenna for testing, 11 cm

- 9656EWMG00E