

# ECU-1050

## Cloud enabled Intelligent Communication Gateway for IIOT application

NEW



CE FCC RoHS COMPLIANT PRODUCT

### Features

- TI Cortex A8 600MHz CPU with DDR3L 256MB RAM
- Support dual Mini PCIe slots
- 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-1050TL RISC-based industrial communication gateway. ECU-1050TL has an open platform design with Cortex A8 processor, one 10/100 Ethernet ports and operating temperature range of -40~70°C. With Linux operating system and open Edgelink 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<sub>DC</sub>
- **Power Requirements** 10 ~ 30 V<sub>DC</sub>

#### System

- **CPU** TI Cortex A8, 600MHz
- **Memory** DDR3L 256MB
- **Indicators** LEDs for Power, LAN (LINK, ACT), Programmable
- **Storage** 512MB NAND Flash
- **SD Slot** 1 x Micro-SD slot
- **Watchdog** Yes
- **Real-time clock** Yes

#### Communication

- **Ethernet Port** 1 x 10/100 RJ-45 ports
- **USB Port** 2 x USB2.0
- **Expansion** Interface: 2 x Mini-PCIe (Full-size)  
Type: WIFI/4G/Cellular  
Signal: USB

#### Software

- **Communication Protocol\*** IEC-60870-5-104  
Modbus TCP/RTU  
MQTT  
FTP/HTTP/DHCP/TCP/IP
- **PLC Driver Support** 100+ PLC drivers
- **Data Logger** Real-time datalogger
- **Database uplink** ODBC/ FTP
- **Data Monitoring** 2000 Tags Max.
- **Programming support** IEC-61131-3, Linux C, Python
- **OS Support** Yocto Kernel 4.9
- **Configuration Tool** Advantech Edgelink Studio

#### Environment

- **Operating Temperature** -40 ~ 70°C
- **Storage Temperature** -40 ~ 85°C
- **Humidity** 5 ~ 95% (non-condensing)

### Ordering Information

- **ECU-1050TL-R10AA** TI Cortex A8 industrial communication gateway with Edgelink

#### Cellular Solution (SIM card is not included)

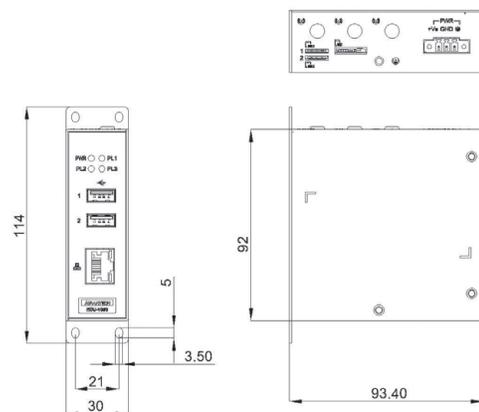
- **96PD-EC25EFA** LTE Cat 4 Module with GNSS
- **1750006264** SMA(F) Cable, 15 cm
- **1750005865** Dipole Antenna, 11 cm

#### WIFI Solution (recommended)

- **96PD-RYUW131** 2.4GHz Wi-Fi Full/Half Size Mini PCIe Card
- **1750006043** SMA(M) cable, 15 cm
- **1750000318** 2dBi antenna for testing, 11 cm

### Dimensions

Unit: mm



\*Please refer to EdgeLink Protocol & Driver Support List for details