ECU-1050

Cloud enabled Intelligent Communication Gateway for IIOT application

Features

- TI Cortex A8 600MHz CPU with DDR3L 256MB RAM
- 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_{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
- **SD Slot** 1 x Micro-SD slot
- **Watchdog** Yes
- **Real-time clock** Yes

Communication

- **Ethernet Port** 1 x 10/100 Base-T RJ-45 ports
- **Wireless (Optional)** Interface: 2x Mini-PCIe (Full-size)
  Type: WIFI/4G/Cellular
  Signal: USB
- **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
- **Programming support** Linux C, Restful API, Web service API. Event Manager

Software

- **OS Support** RT-Linux 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

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)

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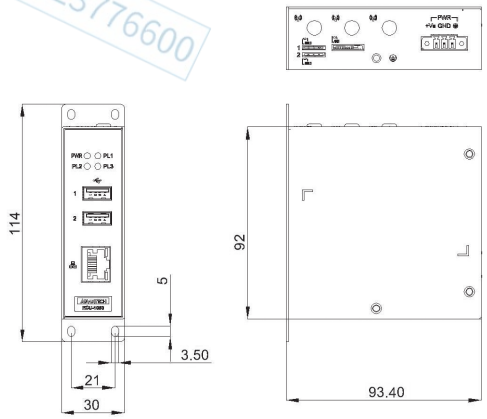
Dimensions

Unit: mm



All product specifications are subject to change without notice.

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