ECU-1051E

Cloud enabled Intelligent Communication Gateway for IIOT application



Features

- TI Cortex A8 300MHz CPU with DDR3L 128MB RAM
- Support web service for remotely on-line monitoring
- Firmware update by SD card and online update
- Data logger on SD card
- 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-1051E RISC-based industrial communication gateway. ECU-1051E 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
- Memory
- Indicators
- Storage SD Slot
- Watchdog
- Real-time clock .

Communication

- Serial Port
- Serial Port Speed
- Ethernet Port
- Wireless (Optional)
- **Software**
- OS Support
- Configuration Tool
- Protocol Support
- PLC driver support
- Programming

Environment

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

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

10 ~ 30 Vpc

TI Cortex A8, 300MHz DDR3L 128MB LEDs for Power, LAN (LINK, ACT), Programmable 512MB NAND Flash 1 x Micro-SD slot Yes

Yes

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

Linux Kernel 4.9 Advantech Edgelink Studio DNP3.0 Client & Server, OPC-UA Client & Server, BACNet/IP Client & Server, Modbus RTU/TCP Master & Slave, IEC-60870-5-101 Master, IEC-60870-5-103 Master. IEC-60870-5-104 Master & Slave Siemens/Mitsubishi/Omron/Allen-Bradley, Delta etc 200 +PLC drivers Linux C, Phython

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

Ordering Information

TI Cortex A8 industrial communication gateway with Edgelink

Cellular Solution (SIM card is not included)

- 96PD-EC25EFA
 - 1750006264

LTE Cat 4 Module with GNSS SMA(F) Cable, 15 cm Dipole Antenna, 11 cm

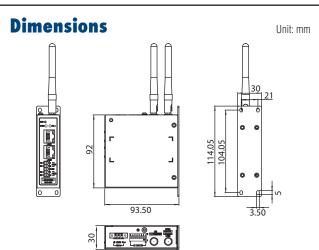
WIFI Solution (recommended)

- - 1750006043
 - 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)

2.4GHz Wi-Fi Full/Half Size Mini PCIe Card



- 1750005865

- 96PD-RYUW131
- 1750000318

SMA(M) cable, 15 cm

- - ECU-1051E-R10AAE