# ESRP-PCS-ECU1251

### **Edge Intelligent Communication Gateway with WISE-PaaS/EdgeLink**



#### **Features**

- TI Cortex A8 800MHz CPU
- DDR3L256MB RAM
- 1GB Micro-SD card for system storage
- 1 x Micro-SD Slot
- 4 x RS-232/485 isolated serial ports
- 2 x 10/100 Base-T Ethernet ports
- 1 x Mini-PCle for WIFI/3G/GPRS/4G
- Support web service for remotely on-line monitoring
- Support SD card & on-line firmware update
- Support Modbus, IEC-60870-101/104 protocol
- Support Data logger on SD card
- Operation System: RT-Linux
- Operation 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 ESRP-PCS-ECU1251 RISC-based industrial communication gateway. ESRP-PCS-ECU1251 has an open platform design with Cortex A8 processor, up to four RS-232/485 isolated serial ports, two 10/100 Ethernet ports and operating temperature range of -40~70°C. With Linux operating system and open Edge Link SDK, which enable to system integrators to develop applications which precisely fit their need.

### **Specifications**

#### General

Certification

Mounting

Power consumption (typical) Power Requirements

Wall-Mount/ DIN-Rail 2.4W @ 24V<sub>DC</sub> 10 ~ 30 V<sub>DC</sub>

TI Cortex A8, 800MHz

4 x RS-232/485 ECU-1251

FTP/HTTP/DHCP/TCP/IP

Linux C, Restful API, Web service API.

Real-time datalogger

ODBC/FTP

Event Manager

RS-232/RS-485: 300~115.2 kbps

Interface: 1x Mini-PCle (Full-size) Type: WIFI/3G/GPRS/4G Signal: USB

2 x 10/100 Base-T RJ-45 ports ECU-1251 1 x 10/100 Base-T RJ-45 ports ECU-1251L

Siemens/Mitsubishi/Omron/Allen-Bradley, Delta etc.

LEDs for Power, LAN (LINK, ACT), Serial (Tx, Rx),

Micro SD card/ 1GB included for system storage SD card/ 4GB included for data storage

DDR3L 256MB

Programmable

1 x USB2 0

DNP3.0 IEC-60870-5 Modbus TCP/RTU

MOTT

#### **System**

- CPU Memory

Indicators

Storage Watchdog

Real-time clock Yes Node ID 8-bit

### Communication

Serial Port

**Serial Port Speed** Ethernet Port

USB Port Wireless (Optional)

Communication Protocol Drivers

PLC Driver Support

Data Logger Data Remote backup

Programming support

Software

**OS Support** Configuration Tool

**ADVANTECH** 

RT-Linux 3.12 WISE-PaaS/EdgeLink Studio

#### **Environment**

**Operating Temperature** -40~70°C Storage Temperature

Humidity 5 ~ 95% (non-condensing)

## **Ordering Information**

ESRP-PCS-ECU1251 Edge intelligent communication gateway

#### 4G/3G Solution (SIM card is not included)

EWM-C117FL04E LTE/HSPA+/GPRS module, w/ SIM Slot, 1750006264 SMA(F) Cable, 15 cm

1750008424-01 4G LTE 700 ~ 960 MHz, 1710 ~ 2700 MHz

#### WIFI Solution (recommended)

96PD-RYUW131 9656EWMG00E

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

1750006043 SMA(M) cable, 15 cm 2dBi antenna for testing, 11 cm 1750000318

