

ECU-1152

TI Cortex A8 Industrial Communication Gateway with 2 x LAN and 6 x COM Ports

NEW



Features

- TI Cortex A8 800 MHz CPU
- DDR3L512 MB RAM
- 1 GB Micro SD card for system storage
- 1 x Micro SD slot
- 6 x RS-232/485 isolated serial ports
- 2 x 10/100 Base-T Ethernet ports
- 1 x Mini-PCle for Wi-Fi/Cellular/4G
- Supports web access for remote online monitoring
- Supports Micro-SD cards and online firmware updates
- Supports Modbus and IEC-60870 protocol
- Supports data logging to Micro-SD card
- RTLinux operating system
- -40 ~ 70°C operating temperature range

Introduction

For solar power, electricity, and factory-related applications that require comprehensive wireless and Ethernet communication solutions, Advantech developed its ECU-1152 RISC-based industrial communication gateway. ECU-1152 features an open platform design with a Cortex A8 processor, six RS-232/485 isolated serial ports, two 10/100 Ethernet ports, and an operating temperature of -40 ~ 70°C. ECU-1152 is equipped with a Linux operating system and open Edgelink SDK to enable system integrators to develop applications specific for their application requirements.

Specifications

General

- **Certification** CE, FCC (No RED certification)
- **Mounting** Wall/ DIN rail
- **Power Consumption** 3.3W @ 24V_{DC} (typical)
- **Power Requirements** 10 ~ 30 V_{DC}

System

- **CPU** TI Cortex A8, 800MHz
- **Memory** DDR3L 512MB
- **Indicators** Programmable LEDs for Power, LAN (LINK, ACT), Serial (Tx, Rx)
- **Storage** 1 GB Micro SD card for system storage
- **SD Slot** 1 x Micro SD
- **Watchdog** Yes
- **Real-Time Clock** Yes
- **Node ID** 8-bit

Communication

- **Serial Port** 6 x RS-232/485
Isolation 3000 V_{DC}
- **Serial Port Speed** RS-232/RS-485: 50 ~ 115200 bps
- **Ethernet Port** 2 x 10/100 Base-T RJ-45 ports
- **USB Port** 1 x USB
- **Wireless (Optional)** Interface: 1x Mini PCIe (full size)
Type: Wi-Fi/Cellular/4G
Signal: USB

Software

- **OS Support** RTLinux 3.12
- **Configuration Tool** Advantech Edgelink Studio
- **Protocol Support** Modbus, IEC-60870
- **Programming** Linux C
- **PLC driver Support** Mitsubishi, Siemens, Omron, Delta

Environment

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

Ordering Information

- **ECU-1152-R11ABE** TI Cortex A8 industrial communication gateway with 2 x LAN, 6 x COM, 1 x Mini PCIe
- **ECU-1152TL-R11ABE** ECU-1152 w/ Edgelink SW
- **1950020136T001** DIN-Rail buckle

Wi-Fi Solution

- **96PD-RYUW131A1** WiFi 4 2.4GHz mPCIe with Antenna and cable
- **EWM-W172H01E** Wi-Fi 5+BT 4.2 Module 2.4/5GHz Mini PCIe
- **1750008717-01** WiFi 2.4G+5G dipole antenna (Recommend qty: 2pcs)
- **1750006043** WiFi Coaxial Cable, 150 mm (Recommend qty: 2pcs)
- **9656EWMG00E** Half-size miniPCIe to miniPCIe bracket set
- **EWM-W180H01E** Wi-Fi 5+BT 5.0 Module 2.4/5GHz Mini PCIe
- **1750008717-01** WiFi 2.4GHz+5GHz dipole antenna (Recommend qty: 2pcs)
- **1750006043** WiFi Coaxial Cable, 150 mm (Recommend qty: 2pcs)
- **9656EWMG00E** Half-size miniPCIe to miniPCIe bracket set

Cellular Solution (SIM card not included)

- **96PD-EC25EFA** LTE Module Cat. 4, Mini-PCle for EU,TW,IN,KR,SEA
- **96PD-EC25JFA** LTE Module Cat. 4, Mini-PCle for JP
- **96PD-EG25GGB** LTE Module Cat. 4, Mini-PCle for Global
- **1750006264** SMA(F) Cable, 15 cm
- **1751000532-01** Dipole Ant. LTE+5G 5.5dB SMA/M 135.7mm
- **96PD-MDG200AU0** AMIC 4G.Cat4 Socket Modem(US)
- **1750006264** SMA(F) Cable, 15 cm
- **1750008303-01** Antenna, 13cm

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)

Dimensions

Unit: mm

