

ECU-1260

Cortex-A35 Industrial Communication Gateway

NEW



CE FCC RoHS COMPLIANT PRODUCT

Features

- Cortex-A35 Quad Core, 1GHz CPU
- Supports web service for remote on-line monitoring
- Supports SD card & on-line firmware update
- Supports Modbus, IEC-60870-101/104 protocol
- Supports data logger on SD card
- Operating temperature -40~70°C

Introduction

Advantech has introduced the ECU-1260, an industrial communication gateway designed for applications related to solar power, electricity, and factory operations that demand comprehensive wireless and Ethernet communication solutions. The ECU-1260 is equipped with a Cortex A35 processor, up to three RS-232/485 isolated serial ports, two Ethernet ports, and can operate within a temperature range of -40 to 70°C. It runs on the Linux operating system and comes with an open Edgeline SDK, allowing system integrators to develop customized applications that precisely meet their requirements.

Specifications

General

- **Certification** CE, FCC
- **Mounting** Wall-Mount/ DIN-Rail
- **Power Consumption** 2.4W @ 24V_{DC}
- **Power Requirements** 10 ~ 30 V_{DC}
- **Dimensions (W x D x H)** 30 x 140 x 96.5mm
- **Enclosure** SGCC
- **Operating System** Yocto 4.4

System

- **CPU** Cortex-A35 Quad Core, 1GHz
- **Memory** DDR3L 2GB
- **Indicators** LEDs for Power, LAN (LINK, ACT), Serial (Tx, Rx), Programmable
- **Storage** 16GB eMMC
- **SD Slot** 1 x Micro-SD slot
- **Watchdog** Yes
- **Real-time clock** Yes

Communication

- **Serial Port** 3 x RS-232/485
- **Isolation** 3000 V_{DC}
- **Serial Port Speed** RS-232/RS-485: 50 ~ 115200 bps
- **Ethernet Port** 2 x 10/100 RJ-45 ports
- **Wireless (Optional)** Interface: 1 x Mini-PCIe (Full-size)
Type: WIFI/Cellular/4G
Signal: USB
- **CAN** 1 x CAN (2 pin)

WISE-Edgeline*

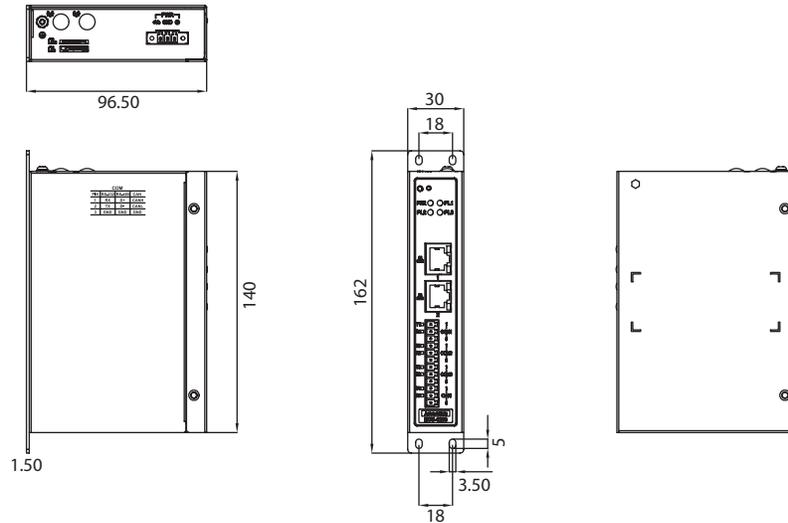
- **Protocol Support** OPC-UA Client & Server, BACNet/IP Client & Server, Modbus RTU/TCP, IEC-60870-5-101, IEC-60870-5-103, IEC-60870-5-104
 - **PLC Driver Support** Siemens/Mitsubishi/Omron/Allen-Bradley, Delta etc 200+ PLC drivers
 - **Programming Support** Linux C, Python
 - **Configuration Tool** WISE-EdgeLink Studio
 - **Data Monitoring** 20000 Tags Max.
 - **Cloud Connectivity** EdgeHub, MQTT, AWS, Azure, LwM2M, Google Cloud IoT Core and more
 - **Database Transmission** SQL Server, MySQL, ORACEL, FTP Server
 - **VPN** Open VPN
- * Edgeline is bundled with Yocto Linux version. Please refer to Edgeline specification for more details.

Environment

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

Dimensions

Unit: mm



Ordering Information

Part Number	CPU	RAM	eMMC	OS	Configuration Tool	LAN	COM	CAN	Console
ECU-1260-351A	Cortex-A35 Quad Core, 1GHz	DDR3L 2GB	16GB	Yocto	WISE-EdgeLink	2	3	1	3-pin COM on board

Optional Accessories

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 2.4G+5G dipole antenna (Recommend qty: 2pcs)
- **1750006043** WiFi Coaxial Cable, 150 mm (Recommend qty: 2pcs)
- **9656EWMG00E** Half-size miniPCIe to miniPCIe bracket set

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)

Cellular Solution (SIM card is not included)

- **96PD-EC25EFA** LTE Module Cat. 4, Mini-PCIe for EU,TW,IN,KR,SEA
- **96PD-EC25JFA** LTE Module Cat. 4, Mini-PCIe for JP
- **96PD-EG25GGB** LTE Module Cat. 4, Mini-PCIe 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