

ECU-1052

Industrial Cellular Gateway for Secure IoT Connectivity

NEW



EdgeHub 

Features

- LTE Cat.4 with 3G/2G fallback and dual SIM for redundancy
- Dual Gigabit Ethernet (10/100/1000 Mbps)
- Preloaded EdgeLink IoT software for data acquisition & cloud connectivity
- EdgeHub cloud service integration for enabling remote operation and maintenance
- Wide operating temperature range
- Wall-mount design, optional DIN-rail kits

Introduction

The ECU-1052 is a 4G-enabled industrial gateway featuring built-in EdgeLink IoT software that collects data from field devices, converts between multiple industrial protocols, and connects seamlessly to major cloud platforms. With integrated EdgeHub cloud service, it supports OTA firmware updates and batch deployment of EdgeLink configurations, while its secure tunneling enables machine builders to remotely access PLCs for cloud-based O&M. This all-in-one solution provides centralized device management while reducing on-site maintenance needs across industrial applications.

Specifications

System	CPU	Cortex-A7 1.2GHz, ARMv7	
	Memory	RAM - 256 MB NAND Flash - 512 MB	
Interfaces	Ethernet	2 x Ethernet, RJ45, 10/100/1000 Mbps	
	Serial Lines	1 x RS232 (Tx, Rx, GND, RTS, CTS) 1 x RS485 (data-, data+, GND) (10-pin terminal block with Digital I/O)	
	I/O	1 x Digital input (dry contact) 1 x Digital output (open drain, 48 V / 100 mA) (10-pin terminal block together with RS232, RS485)	
	Reset Button	Factory reset (> 4 s)	
	LED Indicators	PWR: green only SIG: green/orange/red for good/fair/poor signal SIM: green/orange for SIM1/2 PL1:user defined PL2:user defined ETH0 & ETH1 on RJ45	
General	Certification	SRRC	
	Power Supply	9 – 48 V _{DC} (2-pin terminal block)	
	Consumption	Idle 2.8W / Average 3.5 W / Maximum 3.8 W	
	Operating Temperature	-40 to +75°C	
	Storage Temperature	-40 to +85°C	
	Humidity	5 to 95 %	
	IP Cover	IP30	
Physical Characteristics	Dimensions (W x H x D)	94 x 39 x 90 mm	
	Enclosure	Metal case with grounding screw	
	Mounting	Wallmount Din-Rail (optional)	
	Weight		331g (excluding accessories)
			LTE antenna: 25.2g Wall-mount bracket: 45g

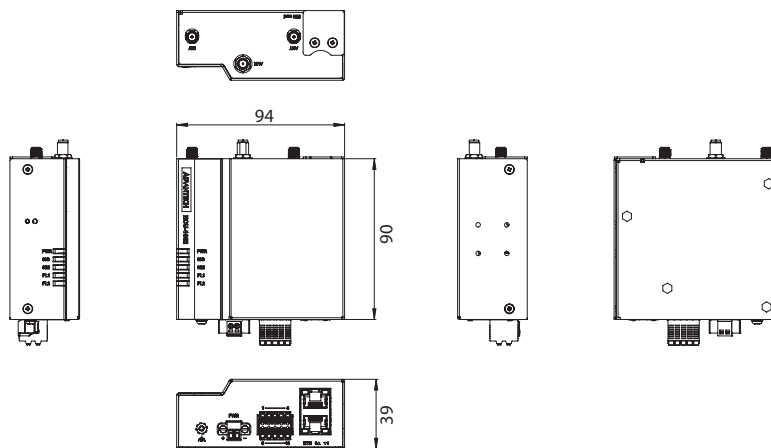
Specifications (Cont.)

Cellular Interface	SIM Slots	2 x SIM (Micro SIMs – 3FF)
	Antennas	2 x SMA Female (1 x main, 1 x diversity)
	LTE Parameters	LTE-FDD bands: B1 (2100 MHz), B3 (1800 MHz), B5 (850MHz), B8 (900 MHz) LTE-TDD bands: B34 (2000MHz), B38 (2600 MHz), B39 (1900MHz), B40 (2300 MHz), B41 (2500 MHz) Transfer rate: LTE-FDD: 150 Mbps (DL), 50 Mbps (UL) LTE-TDD: 130 Mbps (DL), 30 Mbps (UL)
	UMTS Parameters	WCDMA bands: B1/B8 Transfer rate: 384 kbps (DL/UL) TD-SCDMA bands: B34/B39 Transfer rate: 2.4 Mbps (DL), 2.2 Mbps (UL)
	EVDO/CDMA Parameters	CDMA800 Transfer rate EVDO: 3.1 Mbps (DL), 1.8 Mbps (UL)
	GSM Parameters	Supported frequencies: EGSM900/ DCS1800 Transfer rate: GPRS: 107 kbps (DL), 85.6 kbps (UL) EDGE: 296 kbps (DL), 236.8 kbps (UL)
Edgelinek*	NorthBound Protocol	IEC-61850*, Modbus Server, DNP3 Outstation, BACnet Server, OPC UA Server
	SouthBound Protocol	Modbus Client, DNP3Master, DL/T645, IEC-101, IEC-103, IEC-104, OPC UA Client, BACnetIP, BACnet MS/IP, SNMP
	PLC driver	ABB/Advantech/Allen-Bradley/BECKHOFF/ DELTA/FATEK/GE/Honeywell/Keyence/Mitsubishi/Omron/Panasonic/Schneider/Sharp/Siemens/Toyopuc/Wago 750/Yaskawa/Yokogawa
	Configuration Tool	WISE-EdgeLink Studio
	Data Monitoring	2000 Tags Max
	Cloud Connectivity(MQTT)	WISE-PaaS, EdgeHub, Azure, AWS, Google Cloud IoT Core and more
	Database Transmission	SQL Server, MySQL, ORACLE, FTP Server
	VPN	OpenVPN, Oray VPN, L2TP/IPSec

*Please refer to the Edgelinek specification for further details. Activation of the IEC-61850 protocol requires an additional fee.

Dimensions

Unit: mm



Ordering Information

- ECU-1052-A71A Cellular gateway, A7 1.2GHz, CAT4, 2GbE & IO, CN

Accessories

Part Number	Description	Included in the package
1751000532-01	2 x LTE antenna	✓
1652008574-01	10-pin Serial / IO connector	
1652002024	2-pin Power connector	
1960115642N001	Wall-mount bracket	
OPT1-DIN-ICR1X-00	DIN-Rail brackets (30 mm)	Optional
BB-RPS-v2-WR2-EU	Power Supply, 12V/1A, 2-pin, UK plug	Optional
BB-RPS-v2-WR2-UK	Power Supply, 12V/1A, 2-pin, UK plug	Optional
BB-RPS-v2-WR2-US	Power Supply, 12V/1A, 2-pin, US plug	Optional