10 robustel

EV8100

robust

Elevator Voice Gateway 1 x FXS + 2 x ETH + 1 x RS-232 + 1 x RS-485 + 1 x CAN + 4 x DI + 1 x Relay + Wi-Fi (optional) + Bluetooth (optional)

INTRODUCTION

Robustel's **EV8100** is an advanced elevator voice gateway designed to facilitate voice transmission over VoIP and VoLTE, ensuring seamless communication between cellular networks and elevator intercom systems. This next-generation device features multiple interfaces, enabling comprehensive remote monitoring and management of the elevator communication system, which allows for rapid and efficient resolution of any issues or malfunctions.

With its robust design and advanced capabilities, the EV8100 serves as a reliable and essential safety solution for modern buildings. It supports Docker, allowing for the easy deployment of applications, and is powered by **RobustOS Pro** – Robustel's latest Linux Debian Bullseye-based router operating system, featuring enhanced cybersecurity, an intuitive graphical user interface (GUI), and a wide array of software functionalities, including VPN support, Smart Roaming, SMS remote control, and more.

The Robustel Cloud Manager Service (RCMS) is a unified cloud-based platform designed for real-time monitoring and centralized management of industrial IoT devices. Fully compatible with Robustel routers and gateways, RCMS delivers an interactive geospatial dashboard that enables users to visualize device locations and track critical metrics such as data usage, signal strength, and network status. To ensure seamless operations, the platform facilitates over-the-air (OTA) updates for firmware, configurations, and applications, minimizing downtime while optimizing system performance. Experience robust, cloud-native device management by registering at: https://rcms-cloud.robustel.net





KEY FEATURES

- Supports VoIP and VoLTE, with VoLTE as a backup voice communication line
- Complies with EN 81-28 and AS1735 standards with an integrated battery holder
- Provides stable 4G/3G/2G cellular connectivity with global band support
- > Features an 8 GB eMMC Flash for running complex applications
- Enables application management through Docker containerization
- Connects to industrial and legacy devices via 1 x RS-232, 1 x RS-485, and 1 x CAN ports
- Allows monitoring and control with 4 x Digital Inputs (DI) and 1 x Relay
- Offers dual SIM slots for redundant communication
- Includes optional 802.11ac Wi-Fi for Access Point and Client modes
- Provides optional Bluetooth 5.2 for enhanced wireless connectivity
- Supports development in C, C++, Java, Python, and Node.js
- Grants access to over 50,000 applications from the Debian repository
- Ensures secure connections with various VPN options, including IPsec and OpenVPN
- Facilitates device management with Robustel's cloud management platform (RCMS)



APPLICATION EXAMPLE

SPECIFICATIONS

Hardware System		Battery			
CPU	ARM Cortex-A7, 792 MHz	1. Battery holder for 2 x 18650 lithium batteries (not included by default).			
RAM	512 MB DDR3	2. Device is only compatible with 18650 (flat top) type of lithium batteries.			
Flash	8 GB eMMC	3. If using a single battery, install it in position 1.			
Cellular Interface		4. Improper installation or use of incorrect batteries may damage the device and void			
Number of antennas	2	Software (Basic features	of RobustOS Pro)		
Connector SIM	SMA-K 2 x Mini SIM (2FF)	Network protocols	PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP, DNS, NTP, SMTP, Telnet, HTTPs, ARP, VLAN, SSH2, DDNS, etc.		
FXS Port		VPN tunnels	IPsec, OpenVPN, GRE, L2TP, PPTP, DMVPN		
Number of ports	1	Firewalls	DMZ, anti-DoS, Filtering (IP/Domain name/MAC		
Connector	2-pin 5.08 mm terminal block		address),Port Mapping, Access Control		
Signal definition	TIP, RING	Remote management	Web, CLI, SMS		
Loop voltage	-48 V DC	Serial port protocols	Serial port protocols Transparent, TCP Client/Server, UDP, Modbus RTU		
Loop current	20 mA max		Gateway		
	800 Ohm max	Others	Smart Roaming V2		
Loop resistance	800 Onm max	SDK			
Ethernet Port		Operating system	RobustOS Pro (Based on Debian 11 Bullseye)		
Number of ports	2 x RJ45, 10/100 Mbps, LAN or WAN, 1 KV magnet isolation protection	Supported programming language	C, C++, Python, Java, Node.js etc. (for users to develop own applications)		
Serial Port		Debian repository available			
Number of ports	1 x RS-232 + 1 x RS-485 + 1 x CAN	Flash available for SDK	6 GB		
Connector	3.5 mm terminal block	RAM available for SDK	256 MB		
ESD protection	8 KV Air, 4 KV Contact	App Center (Available Apps for RobustOS Pro)			
Baud rate	300 bps to 115200 bps for RS-232/RS-485, up to 1 Mbps for CAN	App* Language, RCMS, Wireguard			
Signal definition	RS-232: TXD, RXD, GND	*Request on demand. For more <i>i</i>	Apps please visit <mark>www.robustel.com.</mark>		
-	RS-485: A, B, GND	Cloud Platform			
	CAN: CAN_H,CAN_ L, GND	Robustel Cloud Manager Service (RCMS)	RobustLink, RobustVPN, Operation Console, Elevator IoT		
Digital Input/Relay Port		Power Supply and Consu	mption		
Number of ports	4 x DI (Wet contact) + 1 x Relay (Dry contact)	Power Supply and Consu Connector	Pmption 2-pin 3.5 mm terminal block with lock		
Number of ports Connector	3.5 mm terminal block		•		
Number of ports Connector Absolute maximum VDC	3.5 mm terminal block + 30 V DC (DI), + 40 V DC (Relay)	Connector	2-pin 3.5 mm terminal block with lock		
Number of ports Connector Absolute maximum VDC Absolute maximum ADC	3.5 mm terminal block + 30 V DC (DI), + 40 V DC (Relay) 100 mA (DI), 300 mA (Relay)	Connector	2-pin 3.5 mm terminal block with lock 12/24 V DC, 9 ~ 30 V DC		
Number of ports Connector Absolute maximum VDC	3.5 mm terminal block + 30 V DC (DI), + 40 V DC (Relay) 100 mA (DI), 300 mA (Relay) DI1+, DI1-, DI2+, DI2-, DI3+, DI3-, DI4+, DI4-;	Connector Input voltage Power consumption	2-pin 3.5 mm terminal block with lock 12/24 V DC, 9 ~ 30 V DC Reverse polarity protection, surge protection Idle: 4 W@12 V Max: 15 W@12 V		
Number of ports Connector Absolute maximum VDC Absolute maximum ADC Signal definition	3.5 mm terminal block + 30 V DC (DI), + 40 V DC (Relay) 100 mA (DI), 300 mA (Relay) DI1+, DI1-, DI2+, DI2-, DI3+, DI3-, DI4+, DI4-; NC, NO, COM	Connector Input voltage Power consumption Recommended power supply	2-pin 3.5 mm terminal block with lock 12/24 V DC, 9 ~ 30 V DC Reverse polarity protection, surge protection Idle: 4 W@12 V		
Number of ports Connector Absolute maximum VDC Absolute maximum ADC Signal definition Wi-Fi Interface (Optional	3.5 mm terminal block + 30 V DC (DI), + 40 V DC (Relay) 100 mA (DI), 300 mA (Relay) DI1+, DI1-, DI2+, DI2-, DI3+, DI3-, DI4+, DI4-; NC, NO, COM	Connector Input voltage Power consumption	2-pin 3.5 mm terminal block with lock 12/24 V DC, 9 ~ 30 V DC Reverse polarity protection, surge protection Idle: 4 W@12 V Max: 15 W@12 V		
Number of ports Connector Absolute maximum VDC Absolute maximum ADC Signal definition Wi-Fi Interface (Optional Number of antennas	3.5 mm terminal block + 30 V DC (DI), + 40 V DC (Relay) 100 mA (DI), 300 mA (Relay) Dl1+, Dl1-, Dl2+, Dl2-, Dl3+, Dl3-, Dl4+, Dl4-; NC, NO, COM	Connector Input voltage Power consumption Recommended power supply	2-pin 3.5 mm terminal block with lock 12/24 V DC, 9 ~ 30 V DC Reverse polarity protection, surge protection Idle: 4 W@12 V Max: 15 W@12 V		
Number of ports Connector Absolute maximum VDC Absolute maximum ADC Signal definition Wi-Fi Interface (Optional Number of antennas Connector	3.5 mm terminal block + 30 V DC (DI), + 40 V DC (Relay) 100 mA (DI), 300 mA (Relay) DI1+, DI1-, DI2+, DI2-, DI3+, DI3-, DI4+, DI4-; NC, NO, COM 2 RP- SMA-K	Connector Input voltage Power consumption Recommended power supply Physical Characteristics	2-pin 3.5 mm terminal block with lock 12/24 V DC, 9 ~ 30 V DC Reverse polarity protection, surge protection Idle: 4 W@12 V Max: 15 W@12 V 12V DC/2 A Power Adapter		
Number of ports Connector Absolute maximum VDC Absolute maximum ADC Signal definition Wi-Fi Interface (Optional Number of antennas	3.5 mm terminal block + 30 V DC (DI), + 40 V DC (Relay) 100 mA (DI), 300 mA (Relay) DI1+, DI1-, DI2+, DI2-, DI3+, DI3-, DI4+, DI4-; NC, NO, COM 2 RP- SMA-K 802.11 a/b/g/n/ac, 2 x 2 MIMO,	Connector Input voltage Power consumption Recommended power supply Physical Characteristics Ingress protection	2-pin 3.5 mm terminal block with lock 12/24 V DC, 9 ~ 30 V DC Reverse polarity protection, surge protection Idle: 4 W@12 V Max: 15 W@12 V 12V DC/2 A Power Adapter IP30		
Number of ports Connector Absolute maximum VDC Absolute maximum ADC Signal definition Wi-Fi Interface (Optional Number of antennas Connector Standards	3.5 mm terminal block + 30 V DC (DI), + 40 V DC (Relay) 100 mA (DI), 300 mA (Relay) Dl1+, Dl1-, Dl2+, Dl2-, Dl3+, Dl3-, Dl4+, Dl4-; NC, NO, COM) 2 RP- SMA-K 802.11 a/b/g/n/ac, 2 x 2 MIMO, Supports AP and Client modes	Connector Input voltage Power consumption Recommended power supply Physical Characteristics Ingress protection Housing & Weight	2-pin 3.5 mm terminal block with lock 12/24 V DC, 9 ~ 30 V DC Reverse polarity protection, surge protection Idle: 4 W@12 V Max: 15 W@12 V 12V DC/2 A Power Adapter IP30 Plastic, 470 g 170 x 150 x 35 mm Desktop, wall mounting and 35 mm DIN rail mounting		
Number of ports Connector Absolute maximum VDC Absolute maximum ADC Signal definition Wi-Fi Interface (Optional Number of antennas Connector	3.5 mm terminal block + 30 V DC (DI), + 40 V DC (Relay) 100 mA (DI), 300 mA (Relay) DI1+, DI2-, DI2-, DI3+, DI3-, DI4+, DI4-; NC, NO, COM 2 RP- SMA-K 802.11 a/b/g/n/ac, 2 x 2 MIMO, Supports AP and Client modes 2.4 GHz/5 GHz	Connector Input voltage Power consumption Recommended power supply Physical Characteristics Ingress protection Housing & Weight Dimensions Installations	2-pin 3.5 mm terminal block with lock 12/24 V DC, 9 ~ 30 V DC Reverse polarity protection, surge protection Idle: 4 W@12 V Max: 15 W@12 V 12V DC/2 A Power Adapter IP30 Plastic, 470 g 170 x 150 x 35 mm Desktop, wall mounting and 35 mm DIN rail mounting Optional magnetic mounting		
Number of ports Connector Absolute maximum VDC Absolute maximum ADC Signal definition Wi-Fi Interface (Optional Number of antennas Connector Standards Frequency bands	3.5 mm terminal block + 30 V DC (DI), + 40 V DC (Relay) 100 mA (DI), 300 mA (Relay) DI1+, DI2-, DI2-, DI3+, DI3-, DI4+, DI4-; NC, NO, COM 2 RP- SMA-K 802.11 a/b/g/n/ac, 2 x 2 MIMO, Supports AP and Client modes 2.4 GHz/5 GHz	Connector Input voltage Power consumption Recommended power supply Physical Characteristics Ingress protection Housing & Weight Dimensions	2-pin 3.5 mm terminal block with lock 12/24 V DC, 9 ~ 30 V DC Reverse polarity protection, surge protection Idle: 4 W@12 V Max: 15 W@12 V 12V DC/2 A Power Adapter IP30 Plastic, 470 g 170 x 150 x 35 mm Desktop, wall mounting and 35 mm DIN rail mounting Optional magnetic mounting -20 ~ + 60 °C (without battery);		
Number of ports Connector Absolute maximum VDC Absolute maximum ADC Signal definition Wi-Fi Interface (Optional Number of antennas Connector Standards Frequency bands Bluetooth Interface (Opti Number of antennas	3.5 mm terminal block + 30 V DC (DI), + 40 V DC (Relay) 100 mA (DI), 300 mA (Relay) D1+, D1-, D12+, D12-, D13+, D13-, D14+, D14-; NC, NO, COM) 2 RP- SMA-K 802.11 a/b/g/n/ac, 2 x 2 MIMO, Supports AP and Client modes 2.4 GHz/5 GHz ional) 1 (Multiplexing Wi-Fi antenna)	Connector Input voltage Power consumption Recommended power supply Physical Characteristics Ingress protection Housing & Weight Dimensions Installations	2-pin 3.5 mm terminal block with lock 12/24 V DC, 9 ~ 30 V DC Reverse polarity protection, surge protection Idle: 4 W@12 V Max: 15 W@12 V 12V DC/2 A Power Adapter IP30 Plastic, 470 g 170 x 150 x 35 mm Desktop, wall mounting and 35 mm DIN rail mounting Optional magnetic mounting -20 ~ + 60 °C (without battery); 0 ~ + 45 °C (with battery)		
Number of ports Connector Absolute maximum VDC Absolute maximum ADC Signal definition Wi-Fi Interface (Optional Number of antennas Connector Standards Frequency bands Bluetooth Interface (Optional	3.5 mm terminal block + 30 V DC (DI), + 40 V DC (Relay) 100 mA (DI), 300 mA (Relay) DI1+, DI1-, DI2+, DI2-, DI3+, DI3-, DI4+, DI4-; NC, NO, COM 2 RP- SMA-K 802.11 a/b/g/n/ac, 2 x 2 MIMO, Supports AP and Client modes 2.4 GHz/5 GHz ional) 1 (Multiplexing Wi-Fi antenna) RP-SMA-K	Connector Input voltage Power consumption Recommended power supply Physical Characteristics Ingress protection Housing & Weight Dimensions Installations Operating temperature	2-pin 3.5 mm terminal block with lock 12/24 V DC, 9 ~ 30 V DC Reverse polarity protection, surge protection Idle: 4 W@12 V Max: 15 W@12 V 12V DC/2 A Power Adapter IP30 Plastic, 470 g 170 x 150 x 35 mm Desktop, wall mounting and 35 mm DIN rail mounting Optional magnetic mounting -20 ~ + 60 °C (without battery); 0 ~ + 45 °C (with battery) Note: The battery can be charged at 0 ~ +35 °C		
Number of ports Connector Absolute maximum VDC Absolute maximum ADC Signal definition Wi-Fi Interface (Optional Number of antennas Connector Standards Frequency bands Bluetooth Interface (Opt Number of antennas Connector	3.5 mm terminal block + 30 V DC (DI), + 40 V DC (Relay) 100 mA (DI), 300 mA (Relay) D1+, D1-, D12+, D12-, D13+, D13-, D14+, D14-; NC, NO, COM) 2 RP- SMA-K 802.11 a/b/g/n/ac, 2 x 2 MIMO, Supports AP and Client modes 2.4 GHz/5 GHz ional) 1 (Multiplexing Wi-Fi antenna)	Connector Input voltage Power consumption Recommended power supply Physical Characteristics Ingress protection Housing & Weight Dimensions Installations	2-pin 3.5 mm terminal block with lock 12/24 V DC, 9 ~ 30 V DC Reverse polarity protection, surge protection Idle: 4 W@12 V Max: 15 W@12 V 12V DC/2 A Power Adapter IP30 Plastic, 470 g 170 x 150 x 35 mm Desktop, wall mounting and 35 mm DIN rail mounting Optional magnetic mounting -20 ~ + 60 °C (without battery); 0 ~ + 45 °C (with battery)		
Number of ports Connector Absolute maximum VDC Absolute maximum ADC Signal definition Wi-Fi Interface (Optional Number of antennas Connector Standards Frequency bands Bluetooth Interface (Opt Number of antennas Connector	3.5 mm terminal block + 30 V DC (DI), + 40 V DC (Relay) 100 mA (DI), 300 mA (Relay) DI1+, DI2-, DI2-, DI3+, DI3-, DI4+, DI4-; NC, NO, COM 2 RP- SMA-K 802.11 a/b/g/n/ac, 2 x 2 MIMO, Supports AP and Client modes 2.4 GHz/5 GHz iorral) 1 (Multiplexing Wi-Fi antenna) RP-SMA-K Bluetooth 2.1 and 3.0 + Enhanced Data Rate (EDR) +	Connector Input voltage Power consumption Recommended power supply Physical Characteristics Ingress protection Housing & Weight Dimensions Installations Operating temperature	2-pin 3.5 mm terminal block with lock $12/24 \vee DC, 9 \sim 30 \vee DC$ Reverse polarity protection, surge protection Idle: $4 W@12 \vee$ Max: $15 W@12 \vee$ 12 $\vee DC/2 A Power Adapter$ IP30 Plastic, 470 g 170 x 150 x 35 mm Desktop, wall mounting and 35 mm DIN rail mounting Optional magnetic mounting $-20 \sim + 60 \degree C$ (with battery); $0 \sim + 45 \degree C$ (with battery) Note: The battery can be charged at $0 \sim +35 \degree C$ $-40 \sim + 85 \degree C$ (without battery)		
Number of ports Connector Absolute maximum VDC Absolute maximum ADC Signal definition Wi-Fi Interface (Optional Number of antennas Connector Standards Frequency bands Bluetooth Interface (Opti Number of antennas Connector Standards	3.5 mm terminal block + 30 V DC (DI), + 40 V DC (Relay) 100 mA (DI), 300 mA (Relay) DI1+, DI2-, DI2-, DI3+, DI3-, DI4+, DI4-; NC, NO, COM 2 RP- SMA-K 802.11 a/b/g/n/ac, 2 x 2 MIMO, Supports AP and Client modes 2.4 GHz/5 GHz iorral) 1 (Multiplexing Wi-Fi antenna) RP-SMA-K Bluetooth 2.1 and 3.0 + Enhanced Data Rate (EDR) +	Connector Input voltage Power consumption Recommended power supply Physical Characteristics Ingress protection Housing & Weight Dimensions Installations Operating temperature Storage temperature	2-pin 3.5 mm terminal block with lock $12/24 \vee DC, 9 \sim 30 \vee DC$ Reverse polarity protection, surge protection Idle: $4 W@12 \vee$ Max: $15 W@12 \vee$ Max: $15 W@12 \vee$ $12 \vee DC/2 A Power Adapter$ IP30 Plastic, 470 g $170 \times 150 \times 35 \text{ mm}$ Desktop, wall mounting and 35 mm DIN rail mounting Optional magnetic mounting $-20 \sim + 60 \degree C$ (without battery); $0 \sim + 45 \degree C$ (with battery) Note: The battery can be charged at $0 \sim +35 \degree C$ $-40 \sim + 85 \degree C$ (with battery) $-20 \sim + 35 \degree C$ (with battery) $-20 \approx + 35 \degree C$ (with battery) for long term) $5 \sim 95\%$ RH (non-condensing)		
Number of ports Connector Absolute maximum VDC Absolute maximum ADC Signal definition Wi-Fi Interface (Optional Number of antennas Connector Standards Frequency bands Bluetooth Interface (Opti Number of antennas Connector Standards Connector Standards	3.5 mm terminal block + 30 V DC (DI), + 40 V DC (Relay) 100 mA (DI), 300 mA (Relay) Dl1+, Dl1-, Dl2+, Dl2-, Dl3+, Dl3-, Dl4+, Dl4-; NC, NO, COM 2 RP- SMA-K 802.11 a/b/g/n/ac, 2 x 2 MIMO, Supports AP and Client modes 2.4 GHz/5 GHz ional) 1 (Multiplexing Wi-Fi antenna) RP-SMA-K Bluetooth 2.1 and 3.0 + Enhanced Data Rate (EDR) + Bluetooth 5.2	Connector Input voltage Power consumption Recommended power supply Physical Characteristics Ingress protection Housing & Weight Dimensions Installations Operating temperature Storage temperature Relative humidity	2-pin 3.5 mm terminal block with lock $12/24 \vee DC, 9 \sim 30 \vee DC$ Reverse polarity protection, surge protection Idle: $4 W@12 \vee$ Max: $15 W@12 \vee$ Max: $15 W@12 \vee$ $12 \vee DC/2 A Power Adapter$ IP30 Plastic, 470 g $170 \times 150 \times 35 \text{ mm}$ Desktop, wall mounting and 35 mm DIN rail mounting Optional magnetic mounting $-20 \sim + 60 \degree C$ (without battery); $0 \sim + 45 \degree C$ (with battery) Note: The battery can be charged at $0 \sim +35 \degree C$ $-40 \sim + 85 \degree C$ (with battery) $-20 \sim + 35 \degree C$ (with battery) $-20 \approx + 35 \degree C$ (with battery) for long term) $5 \sim 95\%$ RH (non-condensing)		
Number of ports Connector Absolute maximum VDC Absolute maximum ADC Signal definition Wi-Fi Interface (Optional Number of antennas Connector Standards Frequency bands Bluetooth Interface (Opti Number of antennas Connector Standards Connector Standards Connector Standards Connector Standards	3.5 mm terminal block + 30 V DC (DI), + 40 V DC (Relay) 100 mA (DI), 300 mA (Relay) DI1+, DI2-, DI2-, DI3+, DI3-, DI4+, DI4-; NC, NO, COM 2 RP- SMA-K 802.11 a/b/g/n/ac, 2 x 2 MIMO, Supports AP and Client modes 2.4 GHz/5 GHz iJ (Multiplexing Wi-Fi antenna) RP-SMA-K Bluetooth 2.1 and 3.0 + Enhanced Data Rate (EDR) + Bluetooth 5.2	Connector Input voltage Power consumption Recommended power supply Physical Characteristics Ingress protection Housing & Weight Dimensions Installations Operating temperature Storage temperature Relative humidity Regulatory and Type App	2-pin 3.5 mm terminal block with lock $12/24 \vee DC, 9 \sim 30 \vee DC$ Reverse polarity protection, surge protection Idle: $4 W@12 \vee$ Max: $15 W@12 \vee$ $12 \vee DC/2 A Power Adapter$ IP30 Plastic, 470 g $170 \times 150 \times 35 mm$ Desktop, wall mounting and 35 mm DIN rail mounting Optional magnetic mounting $-20 \sim + 60 °C$ (with battery); $0 \sim + 45 °C$ (with battery) Note: The battery can be charged at $0 \sim +35 °C$ $-40 \sim + 85 °C$ (with battery) $-20 \sim + 35 °C$		
Number of ports Connector Absolute maximum VDC Absolute maximum ADC Signal definition Wi-Fi Interface (Optional Number of antennas Connector Standards Frequency bands Bluetooth Interface (Opti Number of antennas Connector Standards Others Reset button Switch	3.5 mm terminal block + 30 V DC (DI), + 40 V DC (Relay) 100 mA (DI), 300 mA (Relay) D1+, D1-, D12+, D12-, D13+, D13-, D14+, D14-; NC, NO, COM 2 RP- SMA-K 802.11 a/b/g/n/ac, 2 x 2 MIMO, Supports AP and Client modes 2.4 GHz/5 GHz ioral) 1 (Multiplexing Wi-Fi antenna) RP-SMA-K Bluetooth 2.1 and 3.0 + Enhanced Data Rate (EDR) + Bluetooth 5.2	Connector Input voltage Power consumption Recommended power supply Physical Characteristics Ingress protection Housing & Weight Dimensions Installations Operating temperature Storage temperature Relative humidity Regulatory and Type App Environmental	2-pin 3.5 mm terminal block with lock $12/24 \vee DC, 9 \sim 30 \vee DC$ Reverse polarity protection, surge protection Idle: $4 W@12 \vee$ Max: $15 W@12 \vee$ 12 $\vee DC/2 A Power Adapter$ IP30 Plastic, 470 g 170 x 150 x 35 mm Desktop, wall mounting and 35 mm DIN rail mounting Optional magnetic mounting $-20 \sim + 60 \circ C$ (without battery); $0 \sim + 45 \circ C$ (with battery) Note: The battery can be charged at $0 \sim +35 \circ C$ $-40 \sim + 85 \circ C$ (with battery) $-20 \sim + 35 \circ C$ (with battery) $-30 \sim + 35 \circ C$ (with battery) $-20 \sim + 35$		
Number of ports Connector Absolute maximum VDC Absolute maximum ADC Signal definition Wi-Fi Interface (Optional Number of antennas Connector Standards Frequency bands Bluetooth Interface (Opti Number of antennas Connector Standards Connector Standards Others Reset button Switch USB port	3.5 mm terminal block + 30 V DC (DI), + 40 V DC (Relay) 100 mA (DI), 300 mA (Relay) D1+, D1-, D12+, D12-, D13+, D13-, D14+, D14-; NC, NO, COM 2 RP- SMA-K 802.11 a/b/g/n/ac, 2 x 2 MIMO, Supports AP and Client modes 2.4 GHz/5 GHz 1 (Multiplexing Wi-Fi antenna) RP-SMA-K Bluetooth 2.1 and 3.0 + Enhanced Data Rate (EDR) + Bluetooth 5.2 1 x RST 1 x Battery Switch 1 x USB 2.0 (host), Type A, 5V, 500 mA	Connector Input voltage Power consumption Recommended power supply Physical Characteristics Ingress protection Housing & Weight Dimensions Installations Operating temperature Storage temperature Relative humidity Regulatory and Type App Environmental	2-pin 3.5 mm terminal block with lock 12/24 V DC, 9 ~ 30 V DC Reverse polarity protection, surge protection Idle: 4 W@12 V Max: 15 W@12 V 12V DC/2 A Power Adapter IP30 Plastic, 470 g 170 x 150 x 35 mm Desktop, wall mounting and 35 mm DIN rail mounting Optional magnetic mounting -20 ~ + 60 °C (without battery); 0 ~ + 45 °C (without battery); 0 ~ + 45 °C (with battery) Note: The battery can be charged at 0 ~ +35 °C -40 ~ + 85 °C (with battery) -20 ~ + 35 °C (with battery) EN 5032 Conducted Emission Class B		
Number of ports Connector Absolute maximum VDC Absolute maximum ADC Signal definition Wi-Fi Interface (Optional Number of antennas Connector Standards Frequency bands Bluetooth Interface (Opti Number of antennas Connector Standards Others Reset button Switch USB port	3.5 mm terminal block 4 30 V DC (DI), 40 V DC (Relay) 100 mA (DI), 300 mA (Relay) D1+, D12-, D12-, D13-, D14+, D14-; NC, NO, COM 2 RP- SMA-K 802.11 a/b/g/n/ac, 2 x 2 MIMO, Supports AP and Client modes 2.4 GHz/5 GHz toral) 1 (Multiplexing Wi-Fi antenna) RP-SMA-K Bluetooth 2.1 and 3.0 + Enhanced Data Rate (EDR) + Bluetooth 5.2 1 x RST 1 x RST 1 x Battery Switch 1 x USB 2.0 (host), Type A, 5V, 500 mA 1 x BATTERY, 1 x RUN, 1 x MDM, 1 x RSSI, 1 x LINE,	Connector Input voltage Power consumption Recommended power supply Physical Characteristics Ingress protection Housing & Weight Dimensions Installations Operating temperature Storage temperature Relative humidity Regulatory and Type App Environmental EMI	2-pin 3.5 mm terminal block with lock 12/24 V DC, 9 ~ 30 V DC Reverse polarity protection, surge protection Idle: 4 W@12 V Max: 15 W@12 V 12V DC/2 A Power Adapter IP30 IP30 Plastic, 470 g 170 x 150 x 35 mm Desktop, wall mounting and 35 mm DIN rail mounting Optional magnetic mounting -20 ~ + 60 °C (without battery); 0 ~ + 45 °C (with battery) Note: The battery can be charged at 0 ~ +35 °C -40 ~ + 85 °C (with battery) -20 ~ + 35 °C (with battery) Solve: The battery for long term) 5 ~ 95% RH (non-condensing) EN 55032 Conducted Emission Class B EN 61000-4-2 (ESD) Level 2 EN 61000-4-3 (RS) Level 3		
Number of ports Connector Absolute maximum VDC Absolute maximum ADC Signal definition Wi-Fi Interface (Optional Number of antennas Connector Standards Frequency bands Bluetooth Interface (Opt Number of antennas Connector Standards Connector Standards Others Reset button Switch USB port LED indicators	3.5 mm terminal block + 30 V DC (DI), + 40 V DC (Relay) 100 mA (DI), 300 mA (Relay) DI1+, DI2-, DI2-, DI3+, DI3-, DI4+, DI4-; NC, NO, COM 2 RP- SMA-K 802.11 a/b/g/n/ac, 2 x 2 MIMO, Supports AP and Client modes 2.4 GHz/5 GHz 1 (Multiplexing Wi-Fi antenna) RP-SMA-K Bluetooth 2.1 and 3.0 + Enhanced Data Rate (EDR) + Bluetooth 5.2 1 x RST 1 x RST 1 x Battery Switch 1 x USB 2.0 (host), Type A, 5V, 500 mA 1 x BATTERY, 1 x RUN, 1 x MDM, 1 x RSSI, 1 x LINE, 1 x CLOUD, 1 x DEVICE	Connector Input voltage Power consumption Recommended power supply Physical Characteristics Ingress protection Housing & Weight Dimensions Installations Operating temperature Storage temperature Relative humidity Regulatory and Type App Environmental EMI	2-pin 3.5 mm terminal block with lock 12/24 V DC, 9 ~ 30 V DC Reverse polarity protection, surge protection Idle: 4 W@12 V Max: 15 W@12 V 12V DC/2 A Power Adapter IP30 Plastic, 470 g 170 x 150 x 35 mm Desktop, wall mounting and 35 mm DIN rail mounting Optional magnetic mounting -20 ~ + 60 °C (without battery); 0 ~ + 45 °C (with battery) Note: The battery can be charged at 0 ~ +35 °C -40 ~ + 85 °C (with battery) > o ~ + 35 °C (with battery) So ~ + 35 °C (with battery) EN FURCE RoHS2.0 EN 55032 Conducted Emission Class B EN 55032 Radiated Emission Class B EN 61000-4-2 (ESD) Level 2 EN 61000-4-3 (RS) Level 3 EN 61000-4-4 (EFT) Level 2		
Number of ports Connector Absolute maximum VDC Absolute maximum ADC Signal definition Wi-Fi Interface (Optional Number of antennas Connector Standards Frequency bands Bluetooth Interface (Opti Number of antennas Connector Standards Others Reset button Switch USB port LED indicators Watchdog	3.5 mm terminal block + 30 V DC (DI), + 40 V DC (Relay) 100 mA (DI), 300 mA (Relay) DI1+, DI2-, DI2-, DI3+, DI3-, DI4+, DI4-; NC, NO, COM 2 RP- SMA-K 802.11 a/b/g/n/ac, 2 x 2 MIMO, Supports AP and Client modes 2.4 GHz/5 GHz 1 (Multiplexing Wi-Fi antenna) RP-SMA-K Bluetooth 2.1 and 3.0 + Enhanced Data Rate (EDR) + Bluetooth 5.2 1 x RST 1 x RST 1 x Battery Switch 1 x USB 2.0 (host), Type A, 5V, 500 mA 1 x BATTERY, 1 x RUN, 1 x MDM, 1 x RSSI, 1 x LINE, 1 x CLOUD, 1 x DEVICE	Connector Input voltage Power consumption Recommended power supply Physical Characteristics Ingress protection Housing & Weight Dimensions Installations Operating temperature Storage temperature Relative humidity Regulatory and Type App Environmental EMI	 2-pin 3.5 mm terminal block with lock 12/24 V DC, 9 ~ 30 V DC Reverse polarity protection, surge protection Idle: 4 W@12 V Max: 15 W@12 V 12V DC/2 A Power Adapter IP30 Plastic, 470 g 170 x 150 x 35 mm Desktop, wall mounting and 35 mm DIN rail mounting Optional magnetic mounting -20 ~ + 60 °C (without battery); 0 ~ + 45 °C (with battery) 0 ~ + 45 °C (with battery) -20 ~ + 35 °C (with battery for long term) 5 ~ 95% RH (non-condensing) 		
Number of ports Connector Absolute maximum VDC Absolute maximum ADC Signal definition Wi-Fi Interface (Optional Number of antennas Connector Standards Frequency bands Bluetooth Interface (Opti Number of antennas Connector Standards Others Reset button Switch USB port LED indicators Watchdog VoIP	3.5 mm terminal block + 30 V DC (DI), + 40 V DC (Relay) 100 mA (DI), 300 mA (Relay) D1+, D12-, D12-, D13+, D13-, D14+, D14-; NC, NO, COM 2 RP- SMA-K 802.11 a/b/g/n/ac, 2 x 2 MIMO, Supports AP and Client modes 2.4 GHz/5 GHz ional) 1 (Multiplexing Wi-Fi antenna) RP-SMA-K Bluetooth 2.1 and 3.0 + Enhanced Data Rate (EDR) + Bluetooth 5.2 1 x RST 1 x RST 1 x Battery Switch 1 x USB 2.0 (host), Type A, 5V, 500 mA 1 x BATTERY, 1 x RUN, 1 x MDM, 1 x RSSI, 1 x LINE, 1 x CLOUD, 1 x DEVICE External	Connector Input voltage Power consumption Recommended power supply Physical Characteristics Ingress protection Housing & Weight Dimensions Installations Operating temperature Storage temperature Relative humidity Regulatory and Type App Environmental EMI	2-pin 3.5 mm terminal block with lock 12/24 V DC, 9 ~ 30 V DC Reverse polarity protection, surge protection Idle: 4 W@12 V Max: 15 W@12 V 12V DC/2 A Power Adapter IP30 Plastic, 470 g 170 x 150 x 35 mm Desktop, wall mounting and 35 mm DIN rail mounting Optional magnetic mounting -20 ~ + 60 °C (without battery); 0 ~ + 45 °C (with battery) Note: The battery can be charged at 0 ~ +35 °C -40 ~ + 85 °C (with battery) > o ~ + 35 °C (with battery) So ~ + 35 °C (with battery) EN FURCE RoHS2.0 EN 55032 Conducted Emission Class B EN 55032 Radiated Emission Class B EN 61000-4-2 (ESD) Level 2 EN 61000-4-3 (RS) Level 3 EN 61000-4-4 (EFT) Level 2		



ORDERING INFORMATION

Model	Order Code	Wi-Fi	BLE	Frequency Bands*	Country /Region	Certification (*In progress)	Package Contains
EV8100-A-4L-A06GL	A012600010	-	-	4G: LTE FDD: B1/2/3/4/5/7/8/12/13/18/19/ 20/25/26/28 LTE TDD: B38/39/40/41 3G: UMTS: B1/2/4/5/6/8/19 2G: GSM: B2/3/5/8	Global	CE UKCA FCC IC PTCRB Verizon AT&T	1 x EV8100 Gateway (B Code: B126001) 1 x Wall Mounting Kit
	A012600002	-	-				1 x EV8100 Gateway (B Code: B126001) 2 x Cellular Antenna 1 x Power Adapter 1 x Wall Mounting Kit
EV8100-B-4L-A06GL	A012600011	V	٧		Global	CE UKCA FCC IC PTCRB Verizon AT&T NTC*	1 x EV8100 Gateway (B Code: B126002) 1 x Wall Mounting Kit
	A012600003	٧	V				1 x EV8100 Gateway (B Code: B126002) 2 x Cellular Antenna 2 x Wi-Fi Antenna 1 x Power Adapter 1 x Wall Mounting Kit
EV8100-A-4L-A34AU	A012600012	-	-	4G: LTE FDD: B1/2/3/4/5/7/8/28 LTE TDD: B40 3G: WCDMA: B1/2/4/5/8 2G: GSM/EDGE: B2/3/5/8	ANZ	RCM	1 x EV8100 Gateway (B Code: B126003) 1 x Wall Mounting Kit
	A012600004	-	-				1 x EV8100 Gateway (B Code: B126003) 2 x Cellular Antenna 1 x Power Adapter 1 x Wall Mounting Kit
EV8100-B-4L-A34AU	A012600013	٧	v		ANZ		1 x EV8100 Gateway (B Code: B126004) 1 x Wall Mounting Kit
	A012600005	٧	V				1 x EV8100 Gateway (B Code: B126004) 2 x Cellular Antenna 2 x Wi-Fi Antenna 1 x Power Adapter 1 x Wall Mounting Kit
EV8100-A-4L-A04JP	A012600014	-	-	4G: LTE FDD: B1/3/8/18/19/26 LTE TDD: B41 3G: B1/6/8/19	Japan	JATE TELEC	1 x EV8100 Gateway (B Code: B126005) 1 x Wall Mounting Kit
	A012600006	-	-				1 x EV8100 Gateway (B Code: B126005) 2 x Cellular Antenna 1 x Power Adapter 1 x Wall Mounting Kit
EV8100-B-4L-A04JP	A012600015	٧	٧				1 x EV8100 Gateway (B Code: B126006) 1 x Wall Mounting Kit
	A012600007	V	V				1 x EV8100 Gateway (B Code: B126006) 2 x Cellular Antenna 2 x Wi-Fi Antenna 1 x Power Adapter 1 x Wall Mounting Kit
EV8100-A-4L-A12EU	A012600016	_	-	4G: LTE FDD: B1/3/7/8/20/28A LTE TDD: B38/40/41 3G: WCDMA: B1/8 2G: GSM/EDGE:B3/8	EU	CE UKCA	1 x EV8100 Gateway (B Code: B126013) 1 x Wall Mounting Kit
EV8100-B-4L-A12EU	A012600017	v	v				1 x EV8100 Gateway (B Code: B126014) 1 x Wall Mounting Kit

*For more information about frequency bands in different countries, please contact your Robustel sales representative.

