10 robustel

R3000LG-OG robust

IP67 Outdoor LoRaWAN Gateway Cost-effective 8 channel Gateway with advanced features

INTRODUCTION

Robustel R3000 LG-OG is an IP67 outdoor LoRaWAN gateway with a myriad of advanced features not usually found on such devices. Unique features include:

Smart Roaming – Unique network selection algorithm for intelligent network selection when using 3G/4G backhaul with roaming SIMs – gives highest possible resilience

RobustVPN – make easy inbound connections to Robustel Gateways on ANY SIM or on any broadband connection. No fixed IP of DynDNS services required

Built-in LNS – Optional built-in LoRaWAN Network Server for applications that require local processing of network data – minimizes network traffic

The R3000LG-OG is based on Robustel's best-selling router, the R3000. With many tens of thousands being sold annually, Robustel can achieve economies of scale on the R3000 series as a whole that many peers in the IoT market cannot reach. For this reason, Robustel can offer a very stable, industrial designed outdoor LoRa gateway at very attractive prices.

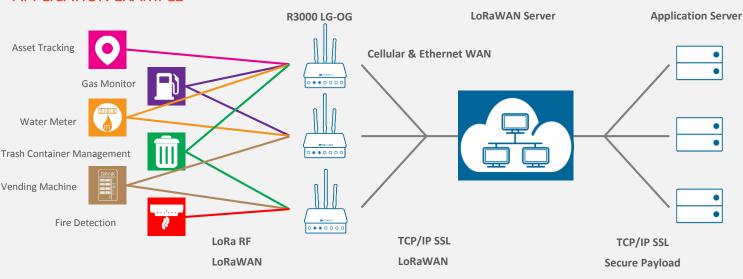
All of the latest models support Global LTE (4G) communications by virtue of the adoption of the latest Global cellular module technology.

KEY FEATURES

 Supports global LoRaWAN ISM frequency bands

@ robustel

- Compatible with LoRaWAN and private protocols
- Compatible with any LoRaWAN Network Server
- Up to 8 channels supports receive data simultaneously
- RobustOS Operating System with extensive SDK
- Backhaul option supports 3G, 4G and Ethernet
- Supports dual SIM + Smart Roaming for high availability cellular Comms
- IP67 ingress protection withstanding water, dust and other extreme weather conditions
- > PoE power single cable instllation
- > Easy wall or pole mounting options



APPLICATION EXAMPLE

SPECIFICATIONS

LoRa Interface Number of antennas Connector Standards	of antennas 1 r M16, female 8 863-870 MHz (Europe) 470-510 MHz (China) 915-927 MHz (Australia) 902-928 MHz (North America) 920-928 MHz (Japan) smitted power +24.5 dBm titvity -142 dBm a capacity Supports 8 channels, and each channel can receive data simultaneously Supports 1 MHz bandwidth demodulation	App Center (Available App Apps* *Request on demand. For	os for RobustOS) lm_csq, Preferred PLMN, PPTP, DMVPN, VRRP, QoS more Apps please visit www.r	S, SNMP, Language
Max transmitted power		Power Supply and Consur Input voltage Power consumption	nption PoE IEEE 802.3af/at Class Idle: 4W Data link: 12W (peak)	A/B, 36V-48V
Max sensitivity Reception capacity Communication range		Physical Characteristics Ingress protection Housing & Weight Dimensions Installations	IP67 Plastic, 3070 g 310 x 245 x 93.4 mm Wall mounting and pole r	nounting
Cellular Interface Number of antennas Connector SIM Standards	2 (MAIN + AUX) M16, female 2 (3 V & 1.8 V) 2G/3G/4G	Approvals Regulatory Environmental AUX	CE , RCM, FCC RoHS2.0, WEEE LORA	MAIN
Ethernet Interface Number of ports Connector	2 x 10/100 Mbps M12, 4Pin&8Pin			
GPS Interface Number of antennas Connector Acquisition sensitivity Horizontal position accuracy	1 SMA-K with 50 ohms impedance (inside) GPS: greater than -148 dBm GPS: 5 m	AIX		MAIN
Software (Basic features of RobustOS) LoRaWAN protocols V1.0 Class A/Class C and V1.0.2 Class A/Class C Network protocols PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP,		ETHO PO	E ETH1	
VPN tunnel Firewall Management	HTTPs, DNS, ARP, BGP, BICF, ICMF, NAI, HTTP, HTTPs, DNS, ARP, BGP, RIP, OSPF, NTP, SMTP, Telnet, VLAN, SSH2, DDNS, etc. IPsec, OpenVPN, GRE DMZ, anti-DoS, Filtering (IP/Domain name/ MAC address), Port Mapping, Access Control Web, CLI, SMS	ETHO POE		00

ORDERING INFORMATION

LoraWAN Network Cellular Air Interface	868MHz GSM/GPRS/EDGE/WCDMA/HSDPA/HSU TD-SCDMA/FDD LTE/TDD LTE	915MHz PA/HSPA+/DC-HSPA+/	470MHz
4G*	Global:B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28; B38/B39/B40/B41		
3G	Global: B1/B2/B4/B5/B6/B8/B19		
2G	Global: B2/B3/B5/B8		
	-40 to +75 °C		
storage Temperature	-40 to +85 °C		
Relative Humidity	5 to 95% RH		
*For more information about 4G f	requency bands in different countries, pleas	e contact your Robustel sales representativ	re.

OPTIONAL ACCESSORIES INFORMATION

PN	Name	Specifications
E003100	Fiberglass-reinforced Cellular Antenna	200mm, 800-2700MHz,3/4.5dBi
E003144	N-male fiberglass-reinforced plastic lora antenna(868/915)	Φ25×360±5mm,860~930MHz,2dBi
E003145	N-male fiberglass-reinforced plastic lora antenna(470)	Ф18×435±10mm,470~510 MHz,2dBi
E005079	M12 4-PIN power supply connector	plastic material, female head plug, 4-PIN, IP67, for making power cable
E005005	4-PIN M12 to RJ45 Ethernet Cable	Length: 2 meters, Black, Wire diameter:0.5mm
E005007	8-PIN M12 to RJ45 Ethernet Cable	Length: 2 meters, Black, Wire diameter:0.5mm, for POE
E005150	M12-4PIN male Connector	plastic material, male head plug, 4-PIN, IP67, for making ethernet cable
E005151	M12-8PIN male Connector	plastic material, male head plug, 8-PIN, IP67, for making poe ethernet cable
E015109	Wall Mounting Kit	Dimensions: 240*175*1.5 mm, Material: Aluminum Plate
E005032	50~120 mm Pole Mounting Kit	50~120 mm Diameter Adjustable, 0.6 mm Thickness, 12 mm Width, Material: Stainless Steel
E005033	100~230 mm Pole Mounting Kit	100~230 mm Diameter Adjustable, 0.6 mm Thickness, 12 mm Width, Material: Stainless Steel
E005034	200~300 mm Pole Mounting Kit	200~300 mm Diameter Adjustable, 0.6 mm Thickness, 12 mm Width, Material: Stainless Steel

Contacto

engineering@tempelgroup.com www.tempelgroup.com_____

Tempel Group en el mundo

BARCELONA • MADRID • VALENCIA • BILBAO • SEVILLA • LISBOA • PORTO • BUENOS AIRES • LIMA SANTIAGO DE CHILE • BOGOTÁ • SÃO PAULO • CIUDAD DE MÉXICO • CIUDAD DE PANAMÁ • MONTEVIDEO • QUITO



