



robustOS

R1520G-OG

IP67 rated outdoor router

4G router with Wi-Fi & Ethernet



INTRODUCTION

The R1520G-OG is an IP67 rated outdoor router (including TPH-R1520 and R1520-4L Global) that is ideal for adding Wi-Fi internet access at events, on campuses or when a rugged housing is required for indoor deployments.

Around 50% of the space inside the enclosure is available for customers to add their own electronics providing a semi-bespoke solution for outdoor deployments of industrial equipment. OEM branding of the enclosure is possible for high volume projects.

Some of the advanced features include:

Smart Roaming: A unique network selection algorithm that intelligently selects networks when using 3G/4G roaming SIM cards - providing maximum reliability.

RobustVPN: A highly flexible hosted VPN service that allows customers to make an inbound connection to the router and attached equipment from anywhere in the world.

Power over Ethernet: Ethernet Port 0 supports PoE-PD to make installation easy – just a single M12-terminated cable is required to get power + data to and from the box.

RCMS is Robustel's free router monitoring service that is fully compatible with the R1520G-OG. It allows customer to see a location overview of their routers quickly and simply on a map. Features such as data usage, signal strength, current network and much more can then be viewed on a per router basis. Over-the-air updates are supported for Firmware, router configuration and Apps serving as essential 'insurance' if anything was not quite right during deployment.

You can try Robustel's free router management platform by signing up here:

<https://rcms-cloud.robustel.net>

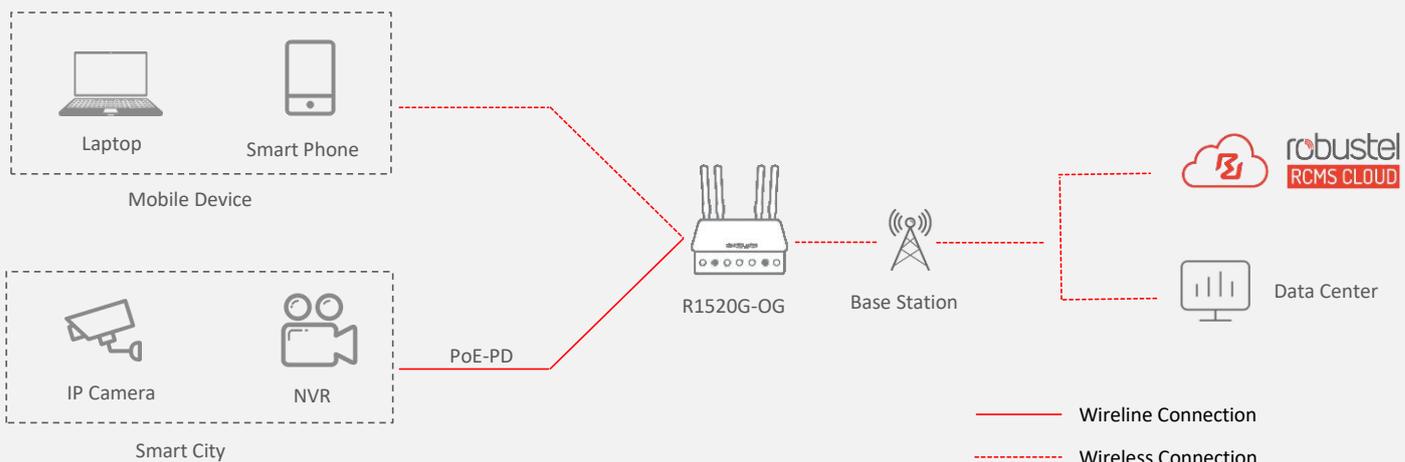


*For R1520-4L Global certification details: www.robustel.com/en/product/r1520-global-iot-router/

KEY FEATURES

- IP67 ingress protection withstanding water, dust, and other extreme weather conditions
- Space inside enclosure for user-specific electronics to be added
- Globally certified*
- Supports dual-SIM cellular, Wi-Fi and Ethernet
- Fully programmable router
- RCMS – free, high quality cloud platform for remote management
- Supports SMS commands for remote configuration/recovery in fault conditions
- Captive Portal function optional
- VPN Support includes OpenVPN, IPSEC, Wireguard + more
- Custom branding for high volume projects

APPLICATION EXAMPLE



SPECIFICATIONS

Cellular Interface

Number of antennas	2
Connector	M16, N female
SIM	2, Mini SIM or eSIM (Optional)

Ethernet Interface

Number of external ports	1 x 10/100 Mbps Ethernet supporting 802.3af/at PoE-PD (ETH0 only)
Connector	M12 A-coded, 8PIN
Number of internal ports	4 x 10/100 Mbps Ethernet
Magnet isolation protection	1.5 KV

Wi-Fi Interface

Number of antennas	2
Connector	M16, N female
Standards	802.11 b/g/n, supports AP and Client modes
Frequency bands	2.4 GHz
Security	WEP, WPA, WPA2
Encryption	64/128 AES, TKIP
Data speed	2 x 2 MIMO, 300 Mbps

App Center (Available Apps for RobustOS)

Apps*	L2TP, PPTP, DMVPN, VRRP, QoS, Captive Portal, WLAN Multi AP, SNMP, Language, RCMS
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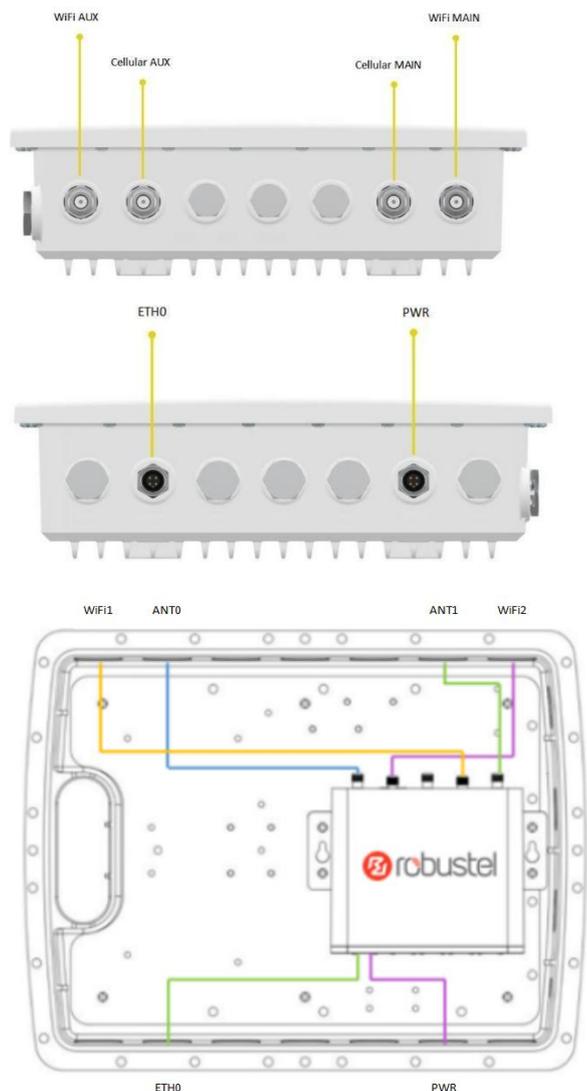
*Request on demand. For more Apps please visit www.robustel.com.

Power Supply and Consumption

Connector	M12 A-coded PoE-PD or optional DC via 3-pin connector
Input voltage via optional DC	9 ~ 36 V DC

Physical Characteristics

Ingress protection	IP67
Housing & Weight	Plastic, 2008g including R1520, excludes antennas and mounting hardware
Dimensions	310 x 245 x 93.4 mm
Installation	Wall mounting and pole mounting
Operating temperature	-25 ~ +70 °C
Storage temperature	-40 ~ +85 °C
Relative humidity	5 ~ 95% RH



ORDERING INFORMATION

Model	PN	Interface	Frequency Band*	Certification* (In progress)
TPH-R1520	B021018	2 x Cellular antenna 2 x Wi-Fi antenna 1 x Ethernet (POE-PD) 1 x Power supply	N/A	RoHS, WEEE
R1520-4L Global	B056701	N/A	4G: LTE FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28 LTE TDD: B38/B39/B40/B41 3G: B1/B2/B4/B5/B6/B8/B19 2G: 850/900/1800/1900MHz	RCM, CE, FCC, CCC, ICASA, IC, TRA, NTC, AT&T, IMDA, NBTC, SIRIM, MTC, PTCRB, E13, CRC, SUBTEL, Enacom, Anatel*, URSEC*, KC*

*For more information about 4G frequency bands in different countries, please contact your Robustel sales representative.

Note: TPH-R1520 (B021018) and R1520-4L Global (B056701) should be ordered together. Robustel will install TPH-R1520 and R1520-4L Global in advance for shipment.

PN	Materials	Descriptions
E003100	Fiberglass-reinforced cellular antenna	200mm, 800-2700 MHz, 3/4.5 dBi
E003101	Fiberglass-reinforced Wi-Fi antenna	200mm, 2400-2483/5725-5850 MHz, 3.5/5 dBi
E005009	3-pin M12 power supply cable	Length: 2 meters, black, IP67
E005007	8-pin M12 to RJ45 Ethernet cable	Length: 2 meters, black, wire diameter: 0.5mm, for PoE
S002001	Wall Mounting Plate	Dimensions: 240*175*1.5 mm, Material: Aluminum Plate
S002002	50 ~ 120 mm Pole Mounting Kit	50~120 mm diameter adjustable, 0.6 mm thickness, 12 mm width. Material: stainless steel
S002003	100 ~ 230 Pole Mounting Kit	100~230 mm diameter adjustable, 0.6 mm thickness, 12 mm width. Material: stainless steel
S002004	200 ~ 300 Pole Mounting Kit	200~300 mm diameter adjustable, 0.6 mm thickness, 12 mm width. Material: stainless steel