

R1520

robust

Industrial Dual SIM Cellular VPN Router Suitable for 2G, 3G, 4G networks



The Robustel industrial dual sim card VPN Router (R1520) is a rugged cellular router can support 2G, 3G, and 4G LTE Cat 4 networks. It provides high-speed wireless network bandwidth for devices through wireless connections to ensure stable wireless network connections.

R1520 is a powerful router developed from RobustOS, a Robustel self-developed and Linux-based operating system which is designed to be used in Robustel devices. The RobustOS includes basic networking features and protocols providing customers with a very good user experience. Meanwhile, Robustel offers a Software Development Kit (SDK) for partners and customers to allow additional customization by using C, Python or Java. It also provides rich Apps to meet fragmented IoT market demands.

Robustel is a leading global industrial IoT/M2M hardware and solution provider. Since its establishment in 2010 in Guangzhou, China, Robustel has been focusing on designing and manufacturing industrial cellular routers, gateways, modems, cloud platforms and E2E solutions. In order to support global business in more than 100+ countries and regions, Robustel has set up local offices in Germany, Australia, the Netherlands, the UK, Japan and Hong Kong.

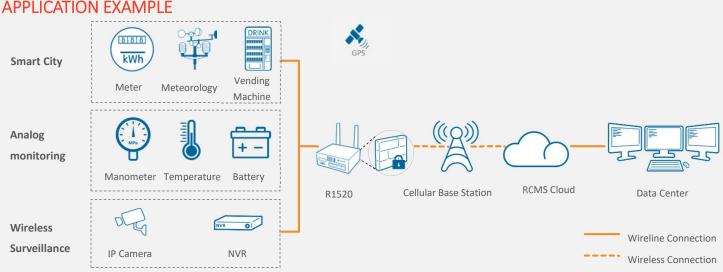


KEY FEATURES

- Support DI + DO + AI
- RobustOS + SDK + App
- Support continuous 2G/3G/4G cellular network connections
- The feature Link Manager supports Cellular WAN, Ethernet WAN, WLAN WAN link backup and ICMP detection
- WAN Static/PPPoE/DHCP Client IPsec/OpenVPN/GRE/L2TP/PPTP/ DMVPN
- Management and maintenance via Web/CLI/SMS/RCMS Cloud
- Auto reboot via SMS/Timing
- Robust industrial design (9 to 36V DC, desktop or wall mounting or DIN rail mounting)

CERTIFICATIONS

CE, FCC, RCM, CCC (in plan)



APPLICATION EXAMPLE

SPECIFICATIONS

Cellular Interface Number of antennas Connector SIM Ethernet Interface Number of ports WAN port	2 external antenna(MAIN + AUX) SMA-K 2 (3 V & 1.8 V) Standard SIM, eSIM optional 5 x 10/100 Mbps, 4 LAN + 1 x WAN Supporting 802.3 af PD feature (optional)	GPS(Optional)Number of antennas1 external antennaGNSS technologyGPS, QZSS, GLONASS, GalileoConnectorRP-SMA-KTracking sensitivityGreater than -148 dBmHorizontal position5 maccuracy
Magnet isolation WiFi Interface Number of antennas Connector Standards Frequency bands Security Encryption	3 KV 2 external antenna RP-SMA-K 802.11b/g/n, supports AP and Client modes 2.4 GHz WEP, WPA, WPA2 64/128 AES, TKIP	Software (Basic features of RobustOS) Network protocols PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP, HTTPs, DNS, ARP, NTP, SMTP, Telnet, VLAN, SSH2, DDNS, etc. VPN tunnel IPsec, OpenVPN, GRE Firewall DMZ, anti-DoS, Filtering (IP/Domain name/ MAC address), Port Mapping, Access Control Management Web, CLI, SMS
Data speed DI/DO Type Interface Absolute maximum VDC	2*2 MIMO, 300 Mbps 1 x DI (wet contact) + 1 x DO (wet contact) 2*3 pin 3.5 mm female socket 30V DC (DI/DO)	App Center (Available Apps for RobustOS) Apps* L2TP, PPTP, DMVPN, RobustVPN, VRRP, QoS, Captive Protal, WLAN Multi AP, SNMP, Language, RobustLink *Request on demand. For more Apps please visit www.robustel.com.
Absolute maximum ADC AI Type Connector Absolute maximum VDC	20mA(DI/DO) Voltage type or Current type 2*3 pin 3.5 mm female socket 0 to 24V DC	Power Supply and Consumption Connector 2 pin 3.5 mm female socket with lock Input voltage 9 to 36V DC Power consumption Idle: 100 mA@12 V Data link: 500 mA (peak) @12 V
Absolute maximum ADC Serial Port Type Connector Baud rate	4 to20 mA 1 x RS232 + 1 x RS485 2*4 pin 3.5 mm female socket 300bps to 115200bps	Physical Characteristics Ingress protection IP30 Housing & Weight Plastic, 200 g Dimensions 105 x 90 x 46 mm Installations Desktop, wall mounting and 35 mm DIN rail mounting
Others USB RTC Reset button LED indicators Built-in	1 x 480Mbps USB2.0 The backup battery can last for 2 days 1 x RST button 1 x RUN, 1 x MDM, 1 x USR, 1 x RSSI, 1 x WiFi Watchdog, Timer	ApprovalsRegulatoryCE, FCC, RCM, CCC (in plan)EnvironmentalRoHS, WEEEEMIEN 55032: 2012/AC: 2013 (CE & RE) Class BEMSIEC 61000-4-2 (ESD) Contact Level 2;IEC 61000-4-3 (RS) Level 2IEC 61000-4-4 (EFT) Level 2IEC 61000-4-5 (Surge) Level 2

ORDERING INFORMATION

Model	R1520-4L	
Router Type	LTE Router	
Air Interface	GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA/HSPA+/DC-HSPA+/	
	TD-SCDMA/CDMA (CDMA 1X/EVDO)/FDD LTE/TDD LTE	
Frequency Bands	Global: B1/ B2/B3/B4/B5/B7/B8/B12/ B13/B18/B19/B20/B25/B26/B28, B38/B39/B40/B41	
	AU: B1/B2 [©] /B3/B4/B5/B7/B8/B28, B40	
4G*	EMEA: B1/B3/B7/B8/B20/B28A	
,	CN: B1/B3, B38/B39/B40/B41	
3G	Global: WCDMA B1/B2/B4/B5/B6/B8/B19	
	AU: WCDMA B1/B8	
	EMEA: WCDMA B1/B8	
	CN: WCDMA B1, TD-SCDMA B34/B39, CDMA2000 1x/EVDO BC0	
2G	Global: B2/B3/B5/B8	
	AU: B2/B3/B5/B8	
	EMEA: B3/B8	
	CN: B3/B8	
Operating Environment	-25 to +70 °C/5 to 95% RH	

①: LTE B2 of AU does not support Rx-diversity

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



IEC 61000-4-6 (CS) Level 2

IEC 61000-4-11 (DIP) Level 2