

robustos R1520 Global

A Global Single SKU IoT Gateway

INTRODUCTION

The R1520 Global router is Robustel's latest addition to the popular R1520 series. The Global variant has been designed for companies that want a simple one size fits all for global 4G deployments. Traditionally, 4G routers have had to be supplied on a 'per region' basis due to cost and certification issues but the R1520 Global changes all that with global 4G (LTE) frequency and a massive investment by Robustel in Global certifications.

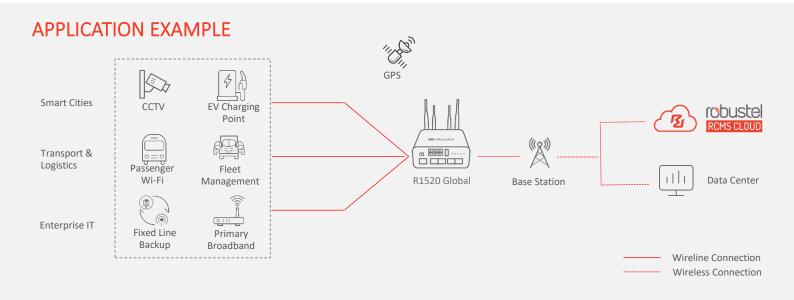
Certifications include but are not limited to: FCC/PTCRB - USA IC - Canada CCC - China IMDA – Singapore NBTC – Thailand KCC – Korea CE - Europe ICASA - South Africa RCM – Australia & New Zealand TRA - United Arab Emirates Various carrier certifications pending + more...

To fully understand the challenges and complexities of Global 4G deployments, please download Robustel's extensive white-paper "Managing and Overcoming the challenges presented by Global 4G/LTE IoT Deployments" -- available here: https://www.robustel.com/white-paper/managing-and-overcoming-the-challenges-presented-by-global-4g-lte-iot-deployments/



KEY FEATURES

- Global 4G frequency coverage for all continents
- Huge investment in Global certifications for all major countries
- Free Cloud Management platform for easy global monitoring
- 802.3at compliant POE interface for simple powering
- > E-mark certification for in vehicle use
- Unique "Smart Roaming" capability for enhanced roaming SIM management
- Support Dual SIMs & WIFI/Ethernet as WAN
- RobustVPN hosted service providing a "fixed IP" router
- Wireguard/IPsec/OpenVPN/DMVPN supported



SPECIFICATIONS

Cellular Interface		Software (Basic features Network protocols	,
Number of antennas	2	Network protocols	PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP,
Connector	SMA-K		HTTPs, DNS, ARP, NTP, SMTP, Telnet, VLAN,
SIM	2 Mini SIMs (2FF)		SSH2, DDNS, etc.
Ethernet Interface		VPN tunnel	IPSec, OpenVPN, GRE
Number of ports	5 x 10/100 Mbps,	Firewall	DMZ, anti-DDoS, Filtering (IP/Domain name/
	5 LAN by default, can be configured as		MAC address), Port Mapping, Access Control
	1 WAN + 4 LAN	Remote Management	Web, CLI, SMS
WAN port	Support 802.3af & 802.3at PD feature on ETH0	App Center (Available Ap	ops for RobustOS)
	(optional)	Apps*	L2TP, PPTP, DMVPN, VRRP, QoS, Captive Portal,
Magnet isolation	1.5 KV		WLAN Multi AP, SNMP, Language, RCMS
protection		*Request on demand. For m	nore Apps please visit www.robustel.com.
Wi-Fi Interface		SDK	
Number of antennas	2	Supported programming	
Connector	RP-SMA-K	language	C, C++
Standards	802.11 b/g/n, supports AP and Client modes	Flash available for SDK	4 MB
Frequency bands	2.4 GHz	RAM available for SDK	64 MB
Security	WEP, WPA, WPA2	Power Supply and Co	nsumption
Encryption Data speed	64/128 AES, TKIP 2 x 2 MIMO, 300 Mbps	Connector	2-pin 3.5 mm socket with lock
		Input Voltage	9 ~ 36 VDC
DI/DO		PoE-PD Voltage	Possibility to power up through ETH0
Type	$1 \times DI + 1 \times DO$, wet contact		40 ~ 57 VDC
Isolation Socket form	3 KV 2 x 3-pin 3.5 mm female socket	Power consumption	Idle: 250 mA@12 V
Level	$3 \sim 30 \text{ V DC} = \text{HIGH}, 0 \sim 1 \text{ V DC} = \text{LOW}$		Data link: 890 mA (peak) @12 V
Absolute maximum V DC	30 V DC (DI/DO)	Physical Characteristic	CS .
Absolute maximum A DC	10 mA (DI/DO)	Ingress protection	IP30
Analog Input		Housing & Weight	Plastic, 250 g
Туре	1 x AI (can be configured as voltage type or	Dimensions	105 x 90 x 46 mm
.,,	current type)	Installations	Desktop, wall mounting and 35 mm DIN rail
Voltage input range	0 ~ 24 VDC		mounting
Current input range	4 ~ 20 mA (current-type input requires external	Operating temperature	-25 ~ +70 °C
	resistance, and finally measured by voltage)	Storage temperature	-40 ~ +85 °C
Socket form	2 x 3-pin 3.5 mm female socket	Relative humidity	5 ~ 95% RH
Signal definition	AI, AGND	Regulatory and Type	
Serial Port		Environmental	RoHS2.0, WEEE
Туре	1 x RS232 + 1 x RS485 serial port	EMC	
Socket form	2 x 4-pin 3.5 mm female socket	EMI	EN 55032: 2012/AC: 2013 (CE & RE) Class B
Signal definition	RS232: RXD, TXD, SGND, RTS, CTS	EMS	IEC 61000-4-2 (ESD) Contact Level 2
	RS485: Data+ (A), Data- (B), Ground (GND)		IEC 61000-4-3 (RS) Level 2
Other Interfaces			IEC 61000-4-4 (EFT) Level 2
	depending on the cellular module)		IEC 61000-4-5 (Surge) Level 2
	3 2.0 interface (Type A, 5V, 500mA)		IEC 61000-4-6 (CS) Level 2
Others			IEC 61000-4-11 (DIP) Level 2
Reset button	1 x RST		

ORDERING INFORMATION

LED indicators

Built-in

Model	PN	POE-PD	Frequency Bands	Certification (* In progress)
R1520-4L Global	B056701	\checkmark	 4G: LTE FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13B18/B19/ B20/B25/B26/B28 LTE TDD: B38/B39/B40/B41 3G: WCDMA: B1/B2/B4/B5/B6/B8/B19 2G: GSM: 850/900/1800/1900MHz 	E-Mark, RCM, CE, UKCA, FCC, IC, PTCRB, AT&T, Verizon, ICASA, TDRA, NTC, IMDA, NBTC, SIRIM, MTC, EAC*, Anatel, Rogers, CRC, SUBTEL, Enacom, URSEC, KCC, NOM, POSTEL
	B056711	-		

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

1 x RUN, 1 x MDM, 1 x USR, 1 x RSSI, 1 x Wi-Fi

Watchdog, RTC

* Please note that some certifications are held by local partners only due to import regulations - please check with Tech Support or the local regulatory authorities before shipping products into an overseas project.

