

robustos R1520 Global

A Global Single SKU IoT Gateway

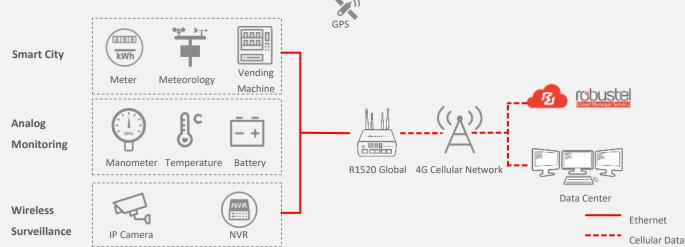
INTRODUCTION

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 KC – Korea* CE - Europe ICASA - South Africa RCM – Australia & New Zealand TRA - United Arab Emirates Various carrier certifications pending + more... (*In progress)

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/

APPLICATION EXAMPLE





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

0 11 1 1 1		Others		
Cellular Interface			1 v DCT hutton	
Number of antennas	2	Reset button	1 x RST button	
Connector	SMA-K	RTC	External RTC clock, Backup energy storage	
SIM	2 Mini SIMs (2FF)		capacitor can be maintained for 2 days	
Ethernet Interface		LED indicators	1 x RUN, 1 x MDM, 1 x USR, 1 x RSSI, 1 x Wi-Fi	
Number of ports	5 x 10/100 Mbps,	Watchdog	Built-in	
	5 LAN by default, can be configured as	Software (Basic features of RobustOS)		
	1 WAN + 4 LAN	Network protocols	PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP,	
WAN port	Support 802.3af & 802.3at PD feature on ETH0		HTTPs, DNS, ARP, NTP, SMTP, Telnet, VLAN,	
Magnet isolation	1.5 KV		SSH2, DDNS, etc.	
protection		VPN tunnel	IPsec, OpenVPN, GRE	
Wi-Fi Interface		Firewall	DMZ, anti-DoS, Filtering (IP/Domain name/	
Number of antennas	2 DD 5044 K		MAC address), Port Mapping, Access Control	
Connector Standards	RP-SMA-K	Remote Management	Web, CLI, SMS	
Frequency bands				
Security	WEP, WPA, WPA2	App Center (Available A		
Encryption	64/128 AES, TKIP	Apps*	L2TP, PPTP, DMVPN, VRRP, QoS, Captive Portal,	
Data speed	2 x 2 MIMO, 300 Mbps		WLAN Multi AP, SNMP, Language, RCMS	
DI/DO			nore Apps please visit www.robustel.com.	
Туре	1 x DI + 1 x DO, wet contact	Power Supply and Co	Power Supply and Consumption	
Isolation	3 KV	Connector	2-pin 3.5 mm socket with lock	
Socket form	2 x 3-pin 3.5 mm female socket	Input voltage	9 ~ 36 V DC	
Level	3 ~ 30 V DC = HIGH, 0 ~ 1 V DC = LOW	Power consumption	Idle: 100 mA@12 V	
Absolute maximum V DC	30 V DC (DI/DO)		Data link: 1.0 A (peak) @12 V	
Absolute maximum A DC	10 mA (DI/DO)	Physical Characteristi	CS	
Analog Input		Ingress protection	IP30	
Туре	1 x AI (can be configured as voltage type or	Housing & Weight	Plastic, 250 g	
	current type)	Dimensions	105 x 90 x 46 mm	
Voltage input range	0 ~ 24 V DC	Installations	Desktop, wall mounting and 35 mm DIN rail	
Current input range	4 ~ 20 mA (current-type input requires external		mounting	
	resistance, and finally measured by voltage)	Operating temperature	-25 ~ +70 °C	
Socket form	2 x 3-pin 3.5 mm female socket	Storage temperature	-40 ~ +85 °C	
Signal definition	AI, AGND	Relative humidity	5 ~ 95% RH	
Serial Port		Approvals	5 55/6141	
Туре	1 x RS232 + 1 x RS485 serial port	Environmental	RoHS2.0, WEEE	
Socket form	2 x 4-pin 3.5 mm female socket	EMC		
Signal definition	RS232: RXD, TXD, SGND, RTS, CTS		EN 55032: 2012/AC: 2013 (CE & RE) Class B	
	RS485: Data+ (A), Data- (B), Ground (GND)	EMI	,	
Other Interfaces		EMS	IEC 61000-4-2 (ESD) Contact Level 2	
GPS	GPS/GLONASS/BeiDou/Galileo		IEC 61000-4-3 (RS) Level 2	
USB	1 x 480Mbps high-speed USB 2.0 interface		IEC 61000-4-4 (EFT) Level 2	
			IEC 61000-4-5 (Surge) Level 2	
			IEC 61000-4-6 (CS) Level 2	

ORDERING INFORMATION

Model	PN	Frequency Bands	Certification (* In progress)
R1520-4L Global	B056701	 4G (LTE FDD): B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28 4G (LTE TDD): B38/B39/B40/B41 3G: B1/B2/B4/B5/B6/B8/B19 2G: 850/900/1800/1900MHz 	E-Mark, RCM, CE, FCC, CCC, ICASA, IC, TRA, NTC, AT&T, IMDA, NBTC, SIRIM, MTC, PTCRB, EAC*, Anatel*, Rogers*, CRC, SUBTEL, Enacom, URSEC*, KC*

 \ast Please contact your Robustel sales representative for more detailed information.



IEC 61000-4-11 (DIP) Level 2