The cost-effective R1520 router is a versatile 4G router with five ethernet ports and a range of advanced functions for IoT applications.

The R1520 router is to be used with the installation of the MaxiCharger where an online application is required.

Model	PN	GNSS	POE-PD	Frequency Bands	Region	Certifications
R1520-4L (S)	B056703	-	Yes	4G: LTE FDD: B1/B3/B7/B8/B20/B28A 3G: WCDMA: B1/B8 2G: GSM: B3/B8	EMEA	CE
	B056712	-	-			

WiFi Interface

Number of antennas	2
Connector	RP-SMA-K
Standards	802.11b/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

Power Supply and Consumption

Connector	2-pin 3.5 mm socket with lock
Input voltage	9 ~ 36 VDC
Power consumption	Idle: 100 mA @ 12 V Data link: 1.0 A (peak) @ 12 V

Cellular Interface

Number of antennas	2
Connector	SMA-K
SIM	2 Mini SIM (2 FF)

Ethernet Interface

Number of ports	5 x 10/100 Mbps, 5LAN by default, can be configured as 1WAN + 4LAN
WAN port	Supports 802.3af & 802.3at PD feature on ETH0 (optional)
Magnet isolation protection	1.5 KV

Other Interfaces

1 x GPS interface (optional, depending on the cellular module)

1 x 480Mbps high-speed USB2.0 interface

Find out more on the next page →

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DI/DO

Type	1 x DI + 1 x DO, wet contact
Isolation	3 KV
Socket form	2 x 3-pin 3.5 mm female socket
Level	3 ~ 30 VDC = HIGH, 0 ~ 1VDC = LOW
Absolute maximum VDC	30 VDC (DI/DO)
Absolute maximum ADC	10 mA (DI/DO)

Analog Input

Type	1 x AI (can be configured as voltage type or current type)
Voltage input range	0 ~ 24 VDC
Current input range	4 ~ 20 mA (current-type input requires external resistance, and finally measured by voltage)
Socket form	2 x 3-pin 3.5 mm female socket
Signal definition	AI, AGND

Serial Port

Type	1 x RS232 + 1 x RS485
Socket form	2 x 4-pin 3.5 mm female socket
Signal definitions	RS232: RXD, TXD, SGND, RTS, CTS RS485: Data+ (A), Data- (B), GND

Others

Reset button	1 x RST
RTC	External RTC clock, Backup energy storage capacitor can be maintained for 2 days
LED indicators	1 x RUN, 1 x MDM, 1 x USR, 1 x RSSI, 1 x Wi-Fi
Built-in	Watchdog, Timer

App Center

Apps	L2TP, PPTP, DMVPN, VRRP, QoS, Captive Portal, WLAN Multi AP, SNMP, Language, RCMS

Software

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
Remote management	Web, CLI, SMS

SDK

Supported programming language	C, C++
Flash available for SDK	4 MB
RAM available for SDK	64 MB

Physical Characteristics

Ingress protection	IP30
Housing & weight	Plastic, 250 g
Dimensions	105 x 90 x 46 mm
Installations	Desktop, wall mounting and 35 mm DIN rail mounting
Operating temperature	-25°C ~ +70°C
Storage temperature	-40°C ~ +85°C
Relative humidity	5 ~ 95% RH

Regulatory and Type Approvals

Environmental	RoHS2.0, WEEE
EMI	EN 55032: 2012/AC: 2013 (CE & RE) Class B
EMS	IEC 61000-4-2 (ESD) Contact Level 2 IEC 61000-4-3 (RS) Level 2 IEC 61000-4-4 (EFT) Level 2 IEC 61000-4-5 (Surge) Level 2 IEC 61000-4-6 (CS) Level 2 IEC 61000-4-11 (DIP) Level 2