

R1510

robust

Industrial Cellular VPN Router 2 Ethernet + 1 DI + 1 DO

INTRODUCTION

Robustel's R1510 router is a Dual Ethernet port (LAN + WAN) 3G/4G router with advanced software functions at a very competitive price point.

At the heart of all of Robustel's routers is the "RobustOS" operating System. With 5 years of maturity and innovative features, RobustOS offers customers a very professional product with an easy to navigate Graphical User Interface and the connection stability required by critical IoT applications. The router occupies a very small footprint which is useful for space-constrained applications such as bus signs, ticketing machines, vending machines, covert surveillance & digital signage applications.

The R1510 has many unique software innovations including, but not limited to: RobustVPN – innovative use of Open VPN tunneling to provide a fixed IP address on ANY SIM Card.

RCMS – Robustel's Cloud management platform – essential for managing an estate of routers – Basic version FREE.

Data Guard – critical 'failsafe' that stops unexpected data overusage within seconds of a threshold being breached.

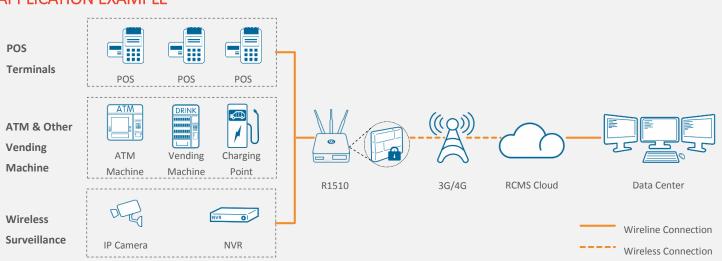
Smart Reboot – essential backup solution for when your roaming SIM card doesn't roam!

Robustel is a leading global industrial IoT/M2M hardware and solution provider. Since inception in 2010, Robustel has focussed on manufacturing and design of industrial cellular routers, gateways, modems, cloud platforms and end to end solutions. Robustel has set up local offices in Germany, Australia, the Netherlands, UK, Japan and Hong Kong and has a global distribution network providing a service in over 100 countries.



KEY FEATURES

- Highly stable 2G/3G/4G cellular connections
- Ethernet, Wifi and 4G internet connection options with auto-failover
- Free cloud management platform – RCMS
- Fully programmable Linux environment with excellent SDK Documentation
- 'Smart Reboot' for enhanced roaming SIM management
- RobustVPN provides fixed IP address on ANY SIM card
- Full SMS control for diagnosis and recovery from data network problems
- Very small footprint for spaceconstrained applications
- Wall-mount and DIN-rail mounting options available



APPLICATION EXAMPLE

SPECIFICATIONS

Cellular Interface

Number of antennas Connector SIM

2 external antenna(MAIN + AUX) SMA-K 1* (3 V & 1.8 V) Standard SIM or eSIM

Ethernet Interface

Number of ports Magnet isolation

WiFi Interface

Number of antennas Connector Standards Frequency bands Security Encryption Data speed RF output power (+/-1 dBm)

2.4 GHz WEP. WPA. WPA2 64/128 AES, TKIP 2*2 MIMO, 300 Mbps 802.11b 802.11g 802.11n (20 MHz) 802.11n (40 MHz) **Receiving sensitivity** 802.11b 802.11g 802.11n (20 MHz) 802.11n (40 MHz)

1.5 KV

1 external antenna

RP-SMA-K (external antenna)

19 dBm

19 dBm

18 dBm

17 dBm

-93 dBm

-90 dBm

-88 dBm

-85 dBm

DI/DO

(+/-1 dBm)

Туре Connector Absolute maximum VDC Absolute maximum ADC

Others

Reset button	1 x RST
LED indicators	1 x RUN, 1 x MDM, 1 x USR, 1 x RSSI, 1 x WiFi
Built-in	Watchdog, Timer

30V DC (DI/DO)

20mA

3-pin 3.5 mm female socket

Software (Basic features of RobustOS) Network protocols PPPoE, DHCP, NAT, DNS, NTP, SMTP, Telnet, VLAN, SSH2, DDNS, etc. VPN tunnel IPsec, OpenVPN, GRE DMZ, anti-DoS, Filtering (IP/Domain name/ Firewall MAC address), Port Mapping, Access Control 2 x 10/100 Mbps, 2 x LAN or 1 x LAN + 1 x WAN Management Web, CLI, SMS App Center (Available Apps for RobustOS) L2TP, PPTP, DMVPN, VRRP, QoS, Captive Protal, Apps* WLAN Multi AP, SNMP, Language, RCMS *Request on demand. For more Apps please visit www.robustel.com. 802.11b/g/n, supports AP and Client modes **Power Supply and Consumption** 2-pin 3.5 mm female socket Connector 9 to 36V DC Input voltage Idle: 100 mA@12 V Power consumption Data link: 500 mA (peak) @12 V **Physical Characteristics** Ingress protection IP30 Housing & Weight Plastic, 150 g Dimensions 91.5 x 91.5 x 30.8mm Installations Desktop, wall mounting and 35 mm DIN rail mounting Approvals CE, Telec, RCM **Regulatory:** 1 x DI (wet contact) + 1 x DO (wet contact) RoHS2.0, WEEE Environmental: EN 55032: 2012/AC: 2013 (CE & RE) Class A EMI IEC 61000-4-2 (ESD) Contact Level 2; EMS 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

ORDERING INFORMATION

Model	R1510-4L
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	EMEA:B1/B3/B7/B8/B20/B28A
	AU: B1/B2/B3/B4/B5/B7/B8/B28/B40
4G*	CN/IN: B1/B3/B5/B8, B34/B38/B39/B40/B41
	JP: B1/B3/B8/B18/B19/B26/B41
3G	EMEA: B1/B8
	AU: B1/B2/B5/B8
	CN/IN: B1/B8; B34/B39; BC0
	JP: B1/B6/B8/B19
2G	EMEA: B3/B8
	AU:B2/B3/B5/B8
	CN/IN: B3/B8
Operating Temperature	-25 to +70 °C
Storage Temperature	-40 to +85 °C
Relative Humidity	5 to 95% RH

* Please note that the different LTE frequency bands are model dependent and not all 4G frequencies are currently supported on a single model of R1510 router.

* Please contact your sales representative for more detailed information on model numbers and for availability of "Global" routers.

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