

# R1510 Lite robustos

Industrial Cellular VPN Router 1 Ethernet + 1 SIM

INTRODUCTION

Robustel's R1510 Lite router is a 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 Lite 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.

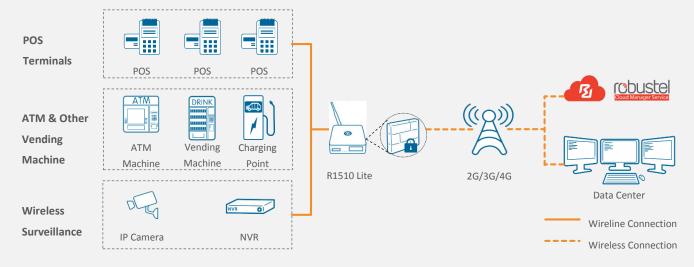
Smart Reboot – essential backup solution for when your roaming SIM card doesn't roam!

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 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		Software (Basic features of RobustOS)			
Number of antennas	1 external antenna (MAIN)	Network protocols	PPPoE, DHCP , NAT, DNS, NTP, SMTP, Telnet,		
Connector	SMA-K		VLAN, SSH2, DDNS, etc.		
SIM	1* (3 V & 1.8 V) Standard SIM or eSIM	VPN tunnel	IPsec, OpenVPN, GRE		
Ethernet Interface Number of ports	1 x 10/100 Mbps, 1 x LAN	Firewall Management	DMZ, anti-DoS, Filtering (IP/Domain name/ MAC address), Port Mapping, Access Control Web, CLI, SMS		
Magnet isolation	1.5 KV	ç			
Others Reset button LED indicators	1 x RST 1 x RUN, 1 x MDM, 1 x USR, 1 x RSSI, 1xWLAN (Reserved)	<b>SDK</b> Supported programming languages Flash available for SDK RAM available for SDK	C, C++, Linux Shell scripts 4MB 64MB		
Built-in	Watchdog, Timer	App Center (Available A	App Center (Available Apps for RobustOS)		
Power Supply and Consumption		Apps*	L2TP, PPTP, DMVPN, VRRP, QoS, Captive Portal,		
Connector	2-pin 3.5 mm female socket		WLAN Multi AP, SNMP, Language, RCMS,		
Input voltage	9 to 36V DC		Data Guard v2		
Power consumption	Idle: 100 mA@12 V	*Request on demand. For n	*Request on demand. For more Apps please visit www.robustel.com		
	Data link: 500 mA (peak) @12 V	Approvals			
Physical Characteristics		EMI	EN 55032: 2012/AC: 2013 (CE) Class B		
Ingress protection	IP30		EN 55032: 2012/AC: 2013 (RE) Class A		
Housing & Weight	Plastic, 150 g	EMS	IEC 61000-4-2 (ESD) Contact Level 2;		
Dimensions	91.5 x 91.5 x 31.5 mm		IEC 61000-4-3 (RS) Level 2		
Installations	Desktop, wall mounting and 35 mm DIN rail		IEC 61000-4-4 (EFT) Level 2		
	mounting		IEC 61000-4-5 (Surge) Level 2		
Operating Temperature	-25 to +70 °C		IEC 61000-4-6 (CS) Level 2		
Storage Temperature	-40 to +85 °C	*(In progress)			
Relative Humidity	5 to 95% RH	*See ordering information j	for details about other certifications		

#### **ORDERING INFORMATION**

Model	LTE Category	Frequency Bands*			Region/	Certification
		4G	3G	2G	Country	(* In progress)
R1510L-4L-A02EU	CAT4	LTE FDD: B1/B3/B7/B8/B20/B28A	WCDMA: B1/B8	GSM: B3/B8	EMEA	CE*
R1510L-4L-A03AU	CAT4	LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28 LTE TDD: B40	WCDMA: B1/B2/B5/B8	GSM: B2/B3/B5/B8	Oceania	
R1510L-4L-A07CN	CAT4	LTE-FDD: B1/B3/B5/B8 LTE-TDD: B34/B38/B39/B40/B41	WCDMA: B1/B8	GSM: B3/B8	China/India	
R1510L-4E-A10CN	CAT1	LTE-FDD: B1/B3/B5/B8 LTE-TDD: B34/B38/B39/B40/B41		GSM: B3/B8	China	

\* 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 Lite router.

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

