



# 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. The R1510 Lite has many unique software innovations included, 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!

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.

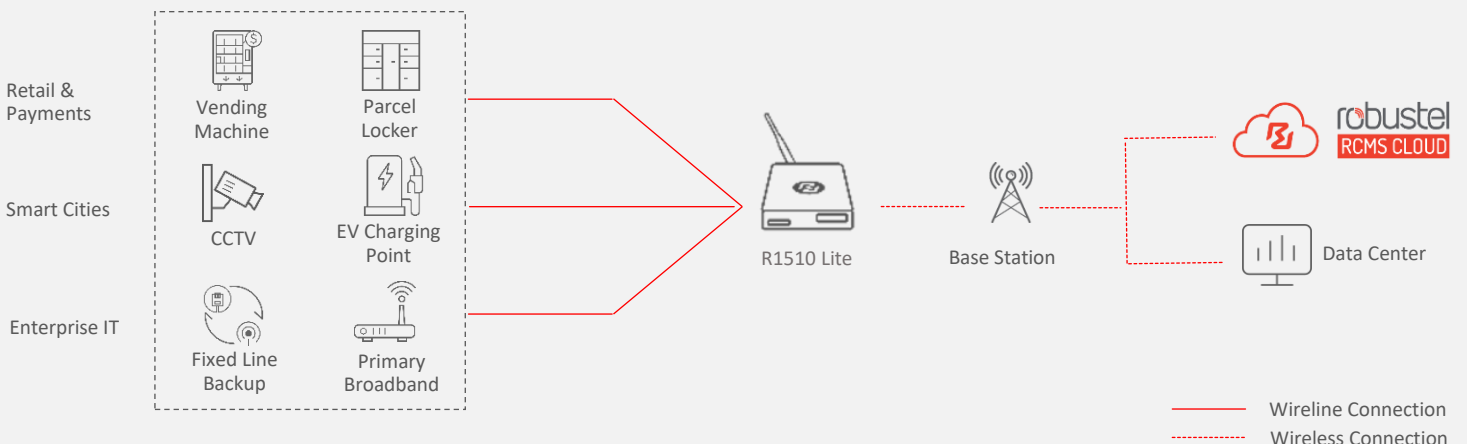
**RCMS** is Robustel’s free router monitoring service that is fully compatible with the R1510 Lite. It allows customer to see a location overview of their routers quickly and simply on a map. Features such as data usage, signal strength, current network and much more can then be viewed on a per router basis. Over-the-air updates are supported for Firmware, router configuration and Apps serving as essential ‘insurance’ if anything was not quite right during deployment. You can try Robustel’s free router management platform by signing up here: <https://rcms-cloud.robustel.net>



## KEY FEATURES

- Highly stable 2G/3G/4G cellular connections
- Ethernet and 4G network 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 space-constrained applications
- Wall-mount and DIN-rail mounting options available

## APPLICATION EXAMPLE



## SPECIFICATIONS

### Cellular Interface

Number of antennas	1 external antenna (MAIN)
Connector	SMA-K
SIM	1 Mini SIM (2FF)

### Ethernet Interface

Number of ports	1 x 10/100 Mbps, 1 x LAN
Magnet isolation protection	1.5 KV

### Others

Reset button	1 x RST
LED indicators	1 x RUN, 1 x MDM, 1 x USR, 1 x RSSI, 1xWLAN (Reserved)
Built-in	Watchdog, Timer

### Software (Basic features of RobustOS)

Network protocols	PPPoE, DHCP, NAT, DNS, 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

### App Center (Available Apps for RobustOS)

Apps*	L2TP, PPTP, DMVPN, VRRP, QoS, Captive Portal, WLAN Multi AP, SNMP, Language, RCMS, Data Guard v2
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\*Request on demand. For more Apps please visit [www.robustel.com](http://www.robustel.com)

### SDK

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

### Power Supply and Consumption

Connector	2-pin 3.5 mm female socket
Input voltage	9 ~ 36 VDC
Power consumption	Idle: 100 mA@12 V Data link: 500 mA (peak) @12 V

### Physical Characteristics

Ingress protection	IP30
Housing & Weight	Plastic, 150 g
UL 94	V-0, 5 VB
Dimensions	91.5 x 91.5 x 31.5 mm
Installations	Desktop, wall mounting and 35 mm DIN rail mounting
Operating temperature	-25 ~ +70 °C
Storage temperature	-40 ~ +85 °C
Relative humidity	5 ~ 95% RH

### Regulatory and Type Approvals

Environmental	RoHS2.0
EMI	EN 55032: 2012/AC: 2013 (CE) Class B EN 55032: 2012/AC: 2013 (RE) Class A
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

## ORDERING INFORMATION

Model	PN	LTE Category	Frequency Bands*	Country/Region	Certification (* In progress)
R1510L-4L-A02EU	B059701	Cat 4	<b>4G:</b> LTE FDD: B1/B3/B7/B8/B20/B28A <b>3G:</b> WCDMA: B1/B8 <b>2G:</b> GSM: B3/B8	EMEA	CE, UKCA
R1510L-4L-A03AU	B059703	Cat 4	<b>4G:</b> LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28 LTE TDD: B40 <b>3G:</b> WCDMA: B1/B2/B5/B8 <b>2G:</b> GSM: B2/B3/B5/B8	Oceania	RCM
R1510L-4L-A04JP	B059707	Cat 4	<b>4G:</b> LTE FDD: B1/B3/B8/B18/B19/B26 LTE TDD: B41 <b>3G:</b> WCDMA: B1/B6/B8/B19	Japan	-

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