

PRODUCT DATASHEET



R1511

robust<mark>OS</mark>

Industrial Cellular VPN Router 2 Ethernet + WiFi + 1 SIM + 1 RS-232/RS-485

INTRODUCTION

Robustel's R1511 router is a Dual Ethernet port (LAN + WAN) 2G/3G/4G/LTE router with advanced software functions at a very competitive price point. The R1511 is a sister product of the R1510 series offering a choice of (3-wire) RS232 or (2-wire) RS485 INSTEAD of the Digital Input and Digital Output found on R1510 series. This means that RS232 and RS485 devices, including Modbus RTU equipment can connect to the internet directly through the R1511 router. Ethernet port 0 can be independently configured as WAN, LAN1 or LAN2 and Ethernet port 1 as LAN1 or LAN2.

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 R1511 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.

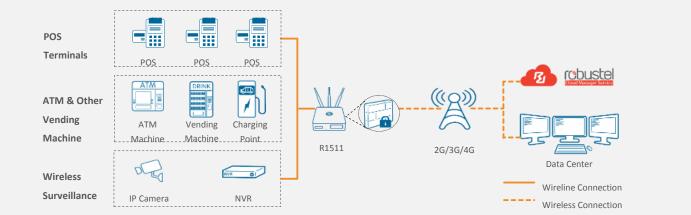
RCMS – Robustel's Cloud management platform – essential for managing an estate of routers – Basic version FREE.

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!

KEY FEATURES

- Dual Ethernet and choice of RS232 or RS485 port
- Modbus RTU to Modbus TCP Gateway built-in
- 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

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)

Receiving sensitivity (+/-1 dBm)

	-
Serial	Interface

Type Connector

Baud rate

Others

Reset button LED indicators Built-in

SDK

Supported programming languages Flash available for SDK RAM available for SDK

4MB 64MB

C, C++, Linux Shell scripts

Watchdog, Timer

ORDERING INFORMATION

2 external antenna(M/ SMA-K 1* (3 V & 1.8 V) Standa 2 x 10/100 Mbps, 2 x L 1.5 KV		Network protocols VPN tunnel Firewall Management	PPPoE, DHCP, NAT, DNS, NTP, SMTP, Telnet, VLAN, SSH2, DDNS, etc. IPsec, OpenVPN, GRE DMZ, anti-DoS, Filtering (IP/Domain name/ MAC address), Port Mapping, Access Control Web, CLI, SMS		
1.5 KV 1 external antenna RP-SMA-K (external antenna) 802.11b/g/n, supports AP and Client modes		App Center (Available Apps for RobustOS) Apps* L2TP, PPTP, DMVPN, VRRP, QoS, Captive WLAN Multi AP, SNMP, Language, RCMS *Request on demand. For more Apps please visit www.robustel.com.			
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) 802.11g 802.11g 802.11g 802.11n (20 MHz) 802.11n (40 MHz)	19 dBm 19 dBm 18 dBm 17 dBm -93 dBm -90 dBm -88 dBm -85 dBm	Power Supply and Co Connector Input voltage Power consumption Physical Characterist Ingress protection Housing & Weight Dimensions Installations	2-pin 3.5 mm female socket 9 to 36V DC Idle: 100 mA@12 V Data link: 500 mA (peak) @12 V ics IP30 Plastic, 150 g 91.5 x 91.5 x 31.5 mm Desktop, wall mounting and 35 mm DIN rail mounting		
1 x RS-232 or 1 x RS-485(Hardware configuration)		Operating Temperature Storage Temperature Relative Humidity	-25 to +70 °C -40 to +85 °C 5 to 95% RH		
3-pin 3.5 mm female socket 300bps to 115200bps 1 x RST 1 x RUN, 1 x MDM, 1 x USR, 1 x RSSI, 1 x WLAN		Approvals EMI EMS	EN 55032: 2012/AC: 2013 (CE & RE) Class B 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		
Watchdog, Timer					

Software (Basic features of RobustOS)

*(In progress)

*See ordering information for details about other certifications

IEC 61000-4-6 (CS) Level 2

Model		LTE	Frequency Bands*			Certification	
Woder		Category	4G	3G	2G	Country	(* In progress)
R1511-4L-A02EU-A	RS-232	CAT4	LTE FDD:	WCDMA: B1/B8	GSM: B3/B8	EMEA	CE*
R1511-4L-A02EU-B	RS-485	CA14	B1/B3/B7/B8/B20/B28A	WCDMA: B1/B8	GSIVI: B3/B8	EMEA	CE
R1511-4L-A03AU-A	RS-232	CAT4	LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28	WCDMA:	GSM:	Oceania	RCM*
R1511-4L-A03AU-B	RS-485	CA14	LTE TDD: B40	B1/B2/B5/B8	B2/B3/B5/B8	Oceania	ICIVI
R1511-4L-A04JP-A	RS-232	CAT4	LTE FDD: B1/B3/B8/B18/B19/B26	WCDMA:		Japan	Telec*. JATE*
R1511-4L-A04JP-B	RS-485	CA14	LTE TDD: B41	B1/B6/B8/B19		зарап	Telec", JATE"
R1511-4L-A05NA-A	RS-232	CAT4	LTE FDD:	WCDMA: B2/B4/B5		North America	FCC*, PTCRB*, ATT*, Verizon*,
R1511-4L-A05NA-B	RS-485	CA14	B2/B4/B5/B12/B13/B14/B66/B71	WCDIWA. 62/64/65		North America	Ic*, Canada Telco*
R1511-4L-A07CN-A	RS-232	CAT4	LTE-FDD: B1/B3/B5/B8	WCDMA: B1/B8	GSM: B3/B8	China/India	
R1511-4L-A07CN-B	RS-485	0.14	LTE-TDD: B34/B38/B39/B40/B41	WCDWA. DI/Do	03101. 03/00	Crima/mula	
R1511-4E-A10CN-A	RS-232	CAT1	LTE-FDD: B1/B3/B5/B8		GSM: B3/B8	China	
R1511-4E-A10CN-B	RS-485	CALL	LTE-TDD: B34/B38/B39/B40/B41		G3WI. B3/B8	Cillia	

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

Instel

Email: info@robustel.com | Website: www.robustel.com ©2020 Guangzhou Robustel LTD All rights reserved. Subject to change without notice.



Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

US

sales@assured-systems.com

Sales: +1 347 719 4508 Support: +1 347 719 4508

1309 Coffeen Ave Ste 1200 Sheridan WY 82801 USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050 Support: +44 (0)1785 879 050

Unit A5 Douglas Park Stone Business Park Stone ST15 0YJ United Kingdom

VAT Number: 120 9546 28 Business Registration Number: 07699660