

robustos R1511

Industrial Cellular VPN Router 2 Ethernet + Wi-Fi + 1 SIM + 1 RS232/RS485

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!

RCMS is Robustel's free router monitoring service that is fully compatible with the R1511. You can try Robustel's free router management platform by signing up here: https://rcms-cloud.robustel.net





KEY FEATURES

- Dual Ethernet and choice of RS232 or RS485 port
- Modbus RTU to Modbus TCP Gateway built-in
- Ethernet, Wi-Fi 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 space-constrained applications
- Wall-mount and DIN-rail mounting options available



SPECIFICATIONS

Cellular Interface		App Center (Available Apps for RobustOS)		
Number of antennas	2 External antennas (MAIN + AUX)	Apps*	L2TP, PPTP, DMVPN, VRRP, QoS, Captive Portal,	
Connector	SMA-K		WLAN Multi AP, SNMP, Language, RCMS	
SIM	1 Mini SIM (2 FF)	*Request on demand. For more Apps please visit www.robustel.com.		
Ethernet Interface		SDK		
Number of ports	2 x 10/100 Mbps, 2 x LAN or 1 x LAN + 1 x WAN	Supported programming	C, C++	
Magnet isolation	4 5 10/	languages	С, С++	
protection	1.5 KV	Flash available for SDK	4 MB	
Wi-Fi Interface		RAM available for SDK	64 MB	
Number of antennas	2 (1 external antenna, 1 PCB antenna)	Power Supply and Cor	nsumption	
Connector	RP-SMA-K (External antenna)	Connector	2-pin 3.5 mm female socket	
Standards	802.11 b/g/n, supports AP and Client modes	Input voltage	9 ~ 36 VDC	
Frequency bands	2.4 GHz	Power consumption	Idle: 100 mA@12 V	
Security	WEP, WPA, WPA2		Data link: 500 mA (peak) @12 V	
Encryption	64/128 AES, TKIP	Physical Characteristics		
Data speed	2 x 2 MIMO, 300 Mbps	Ingress protection	IP30	
Serial Interface		Housing & Weight	Plastic, 150 g	
Туре	1 x RS232 or 1 x RS485 (Hardware configuration)	UL 94	V-0, 5 VB	
Connector	3-pin 3.5 mm female socket	Dimensions	91.5 x 91.5 x 31.5 mm	
Baud rate	300 bps ~ 115200 bps	Installations	Desktop, wall mounting and 35 mm DIN rail	
Others			mounting	
Reset button	1 x RST	Operating temperature	-25 ~ +70 °C	
LED indicators	1 x RUN, 1 x MDM, 1 x USR, 1 x RSSI, 1 x WLAN	Storage temperature	-40 ~ +85 °C	
Built-in	Watchdog, Timer	Relative humidity	5 ~ 95% RH	
Software (Basic features of	of RobustOS)	Regulatory and Type Approvals		
Network protocols	PPPoE, DHCP, NAT, DNS, NTP, SMTP, Telnet,	Environmental	RoHS2.0	
	VLAN, SSH2, DDNS, etc.	EMI	EN 55032: 2012/AC: 2013 (CE & RE) Class B	
VPN tunnel	IPsec, OpenVPN, GRE	EMS	IEC 61000-4-2 (ESD) Contact Level 2	
Firewall	DMZ, anti-DoS, Filtering (IP/Domain name/		IEC 61000-4-3 (RS) Level 2	
	MAC address), Port Mapping, Access Control		IEC 61000-4-4 (EFT) Level 2	
Remote management	Web, CLI, SMS		IEC 61000-4-5 (Surge) Level 2	
			IEC 61000-4-6 (CS) Level 2	

ORDERING INFORMATION

Model	PN	Serial Interface	LTE Category	Frequency Bands*	Country/ Region	Certification (* In progress)
R1511-4L-A02EU-A	B061701	RS232	Cat 4	4G: LTE FDD: B1/B3/B7/B8/B20/B28A 3G: WCDMA: B1/B8 2G: GSM: B3/B8	EMEA	CE
R1511-4L-A02EU-B	B061702	RS485				
R1511-4L-A03AU-A	B061703	RS232	Cat 4	 4G: LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28 LTE TDD: B40 3G: WCDMA: B1/B2/B5/B8 2G: GSM: B2/B3/B5/B8 	Oceania	RCM
R1511-4L-A03AU-B	B061704	RS485				
R1511-4L-A04JP-A	B061711	RS232	Cat 4	 4G: LTE FDD: B1/B3/B8/B18/B19/B26 LTE TDD: B41 3G: WCDMA: B1/B6/B8/B19 	Japan	Telec, JATE
R1511-4L-A04JP-B	B061712	RS485				
R1511-4L-A05NA-A	B061709	RS232	Cat 4	4G : LTE FDD: B2/B4/B5/B12/B13/B14/B66/B71 3G : WCDMA: B2/B4/B5	North America	FCC, IC, PTCRB*, AT&T*, Verizon*
R1511-4L-A05NA-B	B061710	RS485				

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

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

