

# R1500 robustes

Industrial Cellular IoT Gateway 1 Eth + 2 RS232

## INTRODUCTION

R1500 industrial cellular IoT gateway supports GSM/GPRS/EDGE 2G network, WCDMA and other 3G networks, HSPA+ 3.5 G and LTE 4G network. It provides high speed wireless network bandwidth for device by wireless connection, and with dual-SIM backup to ensure the stable connection of wireless network

R1500 is a powerful gateway developed from **RobustOS**, a Robustel self-developed and Linux-based operating system which is designed to be used in Robustel devices. The RobustOS includes basic networking features and protocols providing customers with a very good user experience. Meanwhile, Robustel offers a **Software Development Kit** (SDK) for partners and customers to allow additional customization by using C, C++. It also provides rich **Apps** to meet fragmented IoT market demands.

**RCMS** is Robustel's free router monitoring service that is fully compatible with the R1500. 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.

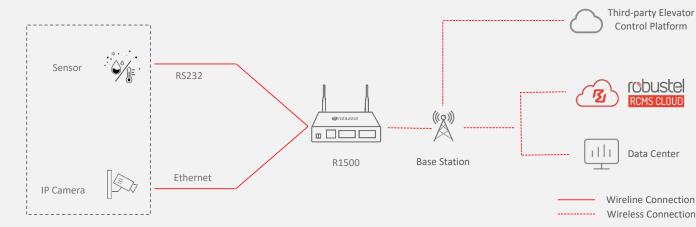
You can try Robustel's free router management platform by signing up here: https://rcms-cloud.robustel.net





# **KEY FEATURES**

- RobustOS + SDK + App
- IPsec/OpenVPN/GRE/L2TP/PPTP/DMVPN and various VPNs
- Supporting double cards link backup and ICMP detection
- Supporting SMS, Email, SNMP Trap and RobustLink
- event alarms
- Supporting Modbus RTU to TCP、 Modbus Master
- Supporting TCP client/server, UDP and virtual serial ports
- Supporting IP Passthrough
- DHCP server
- Supporting RobustVPN cloud platform, providing easy and safe remote access for PLC and other industrial devices
- Supporting RobustLink M2M centralized management platform, real time monitoring device network status and counting device flow
- Supporting Web、CLI、USB、SMS and RobustLink to upgrade firmware
- Powerful industrial design (9~36V DC input voltage, supporting desktop placement, wall mount or rail mount)



#### APPLICATION EXAMPLE

#### **SPECIFICATIONS**

Cellular	Interface
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Cellular Interface		App Center (Available A	apps for RobustOS)	
Number of antennas	2 (MAIN + AUX)	Apps*	Language, RCMS	
Connector	SMA-K	*Request on demand. For more Apps please visit www.robustel.com.		
SIM Standard	2 x Mini SIM (2FF) GSM/WCDMA/FDD LTE/TDD LTE	Supported programming language	C, C++	
Ethernet Interface		Flash available for SDK	3 MB	
Number of ports	1 x 10/100 Mbps	RAM available for SDK	16 MB	
Serial Interface	· ·	Power Supply and Consumption		
Number of ports	2 x RS232	Connector	2-pin 3.5 mm	
Connector	DB9	Input voltage	9 ~ 36V DC	
Signal	TxD, RxD, GND, CTS, RTS, DSR, DTR	Power consumption	Idle: 80 mA@12 V	
Baud rate	300bps ~ 115200bps		Data link: 450 mA (peak) @12 V	
Others		Physical Characteristics		
LED indicators	1 x RUN, 1 x MDM, 1 x USR, 3 x RSSI	Ingress protection	IP30	
	Network indicator (link + rate)	Housing & Wight	Plastic, 300 g	
Built-in	RTC, Watchdog, Timer	Dimensions	118 x 97.5 x 28.5 mm	
Software (Basic features of RobustOS) Network protocols PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP,		Installations Operating temperature	Desktop, wall mounting and DIN rail mounting -40 $^\circ$ +75 $^\circ\text{C}$	
	HTTPs, DNS, ARP, NTP, SMTP, Telnet, SSH2,	Storage temperature	-40 ~ +85 °C	
	DDNS, etc.	Relative humidity	5 ~ 95% RH	
VPN tunnel	IPsec, OpenVPN, GRE	Regulatory and Type Approvals		
Management	Web, CLI, SMS	Environmental	RoHS2.0, WEEE	
Serial port	Transparent, TCP Client/Server, UDP,			
	Modbus RTU Gateway			

### **ORDERING INFORMATION**

Model	PN	Category	Frequency Bands*	Country/ Region	Certifications (*In progress)
	B041701		<ul> <li>4G: LTE FDD: B1/B3/B5/B7/B8/B20 LTE TDD: B38/B40/B41</li> <li>3G: WCDMA: B1/B5/B8</li> <li>2G: GSM: B3/B8</li> </ul>	EMEA	CE
R1500-4L	B041703	Cat 4	<ul> <li>4G: LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28 LTE TDD: B40</li> <li>3G: WCDMA: B1/B2/B5/B8</li> <li>2G: GSM: B2/B3/B5/B8</li> </ul>	Oceania	RCM

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

