

# R1500 robustos

Industrial Cellular IoT Gateway

1 Eth + 2 RS-232



## 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

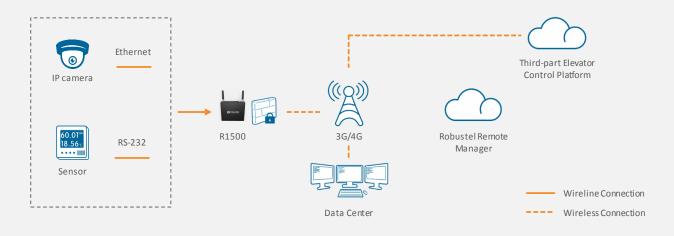
R1500 is a powerful gateway developed from RobustOS, a Robustel self-developed and Linux-based operating system which is designed to be used in Robustel devices. The RobustOS includes basic networking features and protocols providing customers with a very good user experience.

Meanwhile, Robustel offers a Software Development Kit (SDK) for partners and customers to allow additional customization by using C, Python or Java. It also provides rich Apps to meet fragmented IoT market demands.

### **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 Pass-through
- 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** 

Number of antennas 2 (MAIN + AUX)

Connector SMA-K

SIM 2 (3 V & 1.8 V)

Standard GSM/WCDMA/FDD LTE/TDD LTE

**Ethernet Interface** 

Number of ports 1 x 10/100 Mbps

**Serial Interface** 

Number of ports 2 x RS-232 Connector DB9

Signal TxD, RxD, GND, CTS, RTS, DSR, DTR

Baud rate 300bps to 115200bps

**Others** 

LED indicators 1 x RUN, 1 x MDM, 1 x USR, 3 x RSSI

Network indicator (link + rate)

Built-in RTC, Watchdog, Timer

App Center (Available Apps for RobustOS)

Apps\* Language, RobustLink

\*Request on demand. For more Apps please visit www.robustel.com.

**Software** (Basic features of RobustOS)

Network protocols PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP,

HTTPs, DNS, ARP, NTP, SMTP, Telnet, SSH2,

DDNS, etc.

VPN tunnel IPsec, OpenVPN, GRE Management Web, CLI, SMS

Serial port Transparent, TCP Client/Server, UDP,

Modbus RTU Gateway

**Power Supply and Consumption** 

Connector 2-pin 3.5 mm

Input voltage 9 to 36V DC

Power consumption Idle: 80 mA@12 V

Data link: 450 mA (peak) @12 V

**Physical Characteristics** 

Ingress protection IP30

Housing & Wight Plastic, 300 g
Dimensions 118 x 97.5 x 28.5 mm

Installations Desktop, wall mounting and DIN rail mounting

**Aprrovals** 

Regulatory CE, Telec
Environmental RoHS2.0, WEEE

## **ORDERING INFORMATION**

Model	R1500-4L
Туре	LTE Gateway
Air Interface	GSM/WCDMA/FDD LTE/TDD LTE
Frequency Bands	EMEA: B1/B3/B5/B7/B8/B20/B28A; B38/B40/B41
4G*	AU: B1/B2/B3/B4/B5/B7/B8/B28; B40
3G	EMEA: B1/B5/B8
	AU: B1/B2/B5/B8
2G	EMEA: B3/B8
	AU: B2/B3/B5/B8
Operating Temperature	-40 to +75 °C
Storage Temperature	-40 to +85 °C
Relative Humidity	5 to 95% RH

<sup>\*</sup>For more information about 4G frequency bands in different countries, please contact your Robustel sales representative.

