

R3000 Lite robustos

Industrial Dual SIM Cellular VPN Router

1 Eth + 1 RS-232 + 1 RS-485 + 1 USB Host



INTRODUCTION

The Robustel Industrial Dual SIM Cellular VPN Router (R3000 Lite) is a rugged cellular router offering state-of-the-art mobile connectivity for machine to machine (M2M) applications.

R3000 Lite is a powerful router 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.

Robustel is a leading global industrial IoT/M2M hardware and solution provider. Since its establishment in 2010 in Guangzhou, China, Robustel has been focusing on designing and manufacturing industrial cellular routers, gateways, modems, cloud platforms and E2E solutions. In order to support global business in more than 100+ countries and regions, Robustel has set up local offices in Germany, Australia, the Netherlands, Japan and Hong Kong.

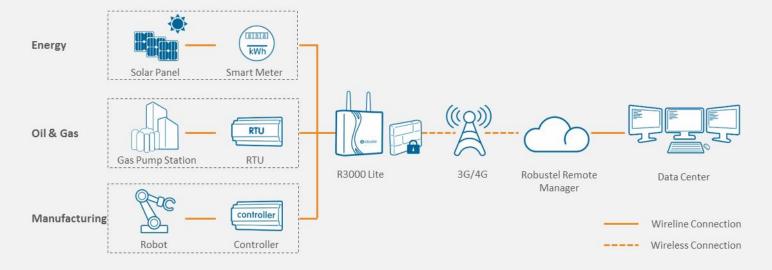
KEY FEATURES

- Dual SIM redundancy for persistent 2G/3G/4G cellular network connections
- RobustOS + SDK + App
- IPsec/OpenVPN/GRE/L2TP/PPTP/ DMVPN
- Management and maintenance via Web/CLI/SMS/SNMP/ RobustLink Cloud
- Robust industrial design (9 to 36V DC, desktop or wall mounting or DIN rail mounting)

CERTIFICATIONS

CE, FCC, RCM, iDA, RoHS, WEEE

APPLICATION EXAMPLE



SPECIFICATIONS

Cellular Interface

Number of antennas 2 (MAIN + AUX)

Connector SMA, female

SIM 2 (3 V & 1.8 V)

Standards GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA/

HSPA+/DC-HSPA+/TD-SCDMA/CDMA (CDMA

1X/EVDO)/FDD LTE/TDD LTE

Ethernet Interface

Number of ports 1 x 10/100 Mbps LAN port

Magnet isolation 1.5 KV

protection

Serial Interface

Number of ports 1 x RS-232 + 1 x RS-485

Connector DB9, female ESD protection ±15 KV

Baud rate 300 bps to 230400 bps

Others

Reset button 1 x RST

Expansion 1 x USB 2.0 host up to 480 Mbps
LED indicators 1 x RUN, 1 x PPP, 1 x USR, 3 x RSSI

Built-in RTC, Watchdog, Timer

Software (Basic features of RobustOS)

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

HTTPs, DNS, ARP, NTP, SMTP, Telnet, VLAN,

SSH2, DDNS, etc.
IPsec, OpenVPN, GRE

VPN tunnel IPsec, OpenVPN, GRE

Firewall DMZ, anti-DoS, Filtering (IP/Domain name/

MAC address), Port Mapping, Access Control

Management Web, CLI, SMS

Serial port Transparent, TCP Client/Server, UDP,

Modbus RTU Gateway

App Center (Available Apps for RobustOS)

Apps L2TP, PPTP, DMVPN, RobustVPN, VRRP, QoS,

SNMP, Language, RobustLink, AAA

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

Power Supply and Consumption

Connector 3.5 mm terminal block

Input voltage 9 to 36V DC

Power consumption Idle: 100 mA@12 V

Date link: 400 mA (peak) @12 V

Physical Characteristics

Ingress protection IP30

Housing & Weight Metal, 305 g

Dimensions 105 x 98 x 29.5 mm

Installations Desktop or wall mounting or 35 mm DIN rail

mounting

EMC

EMI EN 55022: 2006/A1: 2007 (CE & RE) Class B

EMS IEC 61000-4-2 (ESD) Level 3
IEC 61000-4-3 (RS) Level 3

IEC 61000-4-4 (EFT) Level 3 IEC 61000-4-5 (Surge) Level 3 IEC 61000-4-6 (CS) Level 3



ORDERING INFORMATION

Model	R3000-L3H	R3000-L3P	R3000-L4L
Router Type	HSDPA router	HSPA+ router	LTE router
Antenna Number	1	2	2
Air Interface	GSM/GPRS/EDGE/HSDPA	GSM/GPRS/EDGE/HSDPA/HSUPA/	GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA/
		HSPA+	HSPA+/DC-HSPA+/TD-SCDMA/
			CDMA (CDMA 1X/EVDO)/FDD LTE/TDD LTE
Frequency Bands		-	AU: B1/B3/B5/B7/B8/B28, B40
4G			EU: B1/B3/B7/B8/B20/B28/B31, B38/B40
			US: B2/B4/B5/B13/B17/B25, B41
			JP: B1/B3/B8/B9/B18/B19/B21/B28, B41
			CN: B1/B3, B38/B39/B40/B41
3G	B1/B8	B1/B2/B4(AWS)/B5/B8/B19	WCDMA/HSDPA/HSUPA/HSPA+/DC-HSPA+:
			B1/B2/B5/B6/B8/B9/B19
			TD-SCDMA: B34/B39
			CDMA (CDMA 1X/EVDO): R0/A BC0/BC1/BC10
2G	850/900/1800/1900 MHz	850/900/1800/1900 MHz	850/900/1800/1900 MHz
Operating Environment	-40 to +75 °C/5 to 95% RH	-40 to +75 °C/5 to 95% RH	-40 to +75 °C/5 to 95% RH

^{*}For more information about 4G frequency bands in different countries, please contact your Robustel sales representative.

