

R3000 Lite robustos

Industrial Dual SIM Cellular VPN Router

1 Eth + 1 RS232 + 1 RS485 + 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 used extensively in industrial applications such as pipeline monitoring, water treatment, Gas & Electricity distribution networks and many similar environments where a hardened product with bulletproof cellular communications is required. R3000 Lite has extensive overvoltage protection, high EMC immunity and has a DIN-rail / panel mount form-factor making it ideal for use in any kind of industrial automation enclosure.

The following software features are present on R3000 Lite:

Smart Roaming – intelligent network selection tool for roaming SIMs

RobustVPN – Simple remote access on any SIM using Robustel hosted VPN

RCMS – Free Router Management Platform – very feature rich

Data Guard – Automatically stop data overruns to avoid billshock

RCMS is Robustel's free router monitoring service that is fully compatible with the R3000 Lite. 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



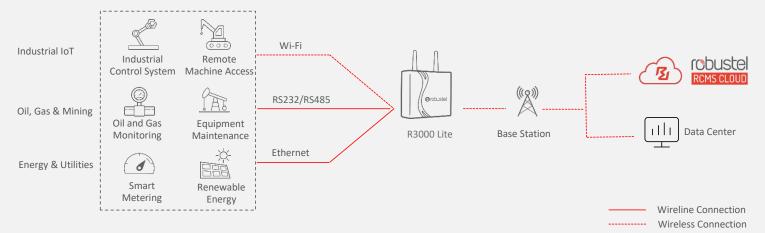




KEY FEATURES

- 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 ~ 36 VDC, desktop or wall mounting or DIN rail mounting)

APPLICATION EXAMPLE



SPECIFICATIONS

Cellular Interface Number of antennas

2 (MAIN + AUX)

Connector SN

SMA-K

SIM 2 x Mini SIM (2FF)

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 protection 1.5 KV

Serial Interface

Number of ports 1 x RS232 + 1 x RS485

Connector DB9, female ESD protection ±15 KV

Baud rate 300 bps ~ 230400 bps Flow control RTS/CTS (for RS232)

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, BGP, RIP, OSPF, NTP, SMTP,

Telnet, VLAN, SSH2, DDNS, etc.

VPN tunnel IPsec, OpenVPN, GRE

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

MAC address), Port Mapping, Access Control

Remote management Web, CLI, SMS

Serial port Transparent, TCP Client/Server, UDP,

Modbus RTU Gateway

App Center (Available Apps for RobustOS)

Apps* L2TP, PPTP, DMVPN, VRRP, QoS, Data Guard,

WLAN Multi AP, SNMP, Language, RCMS

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

SDK

Supported programming

language

C, C++

Flash available for SDK 64 MB RAM available for SDK 64 MB

Power Supply and Consumption

Connector 3.5 mm terminal block

Input voltage $9 \sim 36 \text{ VDC}$

Power consumption Idle: 100 mA@12 V

Data 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, wall mounting and 35 mm DIN rail

mounting

Operating temperature $-40 \sim +75 \,^{\circ}\text{C}$ Storage temperature $-40 \sim +85 \,^{\circ}\text{C}$ Relative humidity $5 \sim 95\% \, \text{RH}$

Regulatory and Type Approvals
Environmental RoHS 2.0, WEEE

EN FF022 2042/AC 204

EMI EN 55032: 2012/AC: 2013 (CE & RE) Class B
EMS IEC 61000-4-2 (ESD) Contact Level 2; Air 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	PN	Category	Frequency Bands*	Country/Region	Certifications (*In progress)
R3000-L4L	B025712	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 South America	RCM, CRC, SUBTEL, MTC, ENACOM, URSEC
	B025717	Cat 4	4G : LTE FDD: B1/B3/B5/B7/B8/B20 LTE TDD: B38/B40/B41 3G : WCDMA: B1/B5/B8 2G : GSM: B3/B8	EMEA	CE, UKCA, CB
	B025718	Cat 4	4G: LTE FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/ B18/ B19/B20/B25/B26/B28 LTE TDD: B38/B39/B40/B41 3G: WCDMA: B1/B2/B4/B5/B6/B8/B19 2G: GSM: B2/B3/B5/B8	EMEA	CE, UKCA, CB
	B025719	Cat 4	4G : LTE FDD: B1/B3/B8/B18/B19/B26 LTE TDD: B41 3G : WCDMA: B1/B6/B8/B19	Japan	Telec, JATE
	B025720	Cat 4	4G : LTE FDD: B1/B3/B7/B8/B20/B28A 3G : WCDMA: B1/B8 2G : GSM: B3/B8	EMEA	CE, UKCA, CB

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

