PRODUCT DATASHEET



R3000 Lite robust

Industrial Dual SIM Cellular VPN Router 1 Eth + 1 RS-232 + 1 RS-485 + 1 USB Host



INTRODUCTION

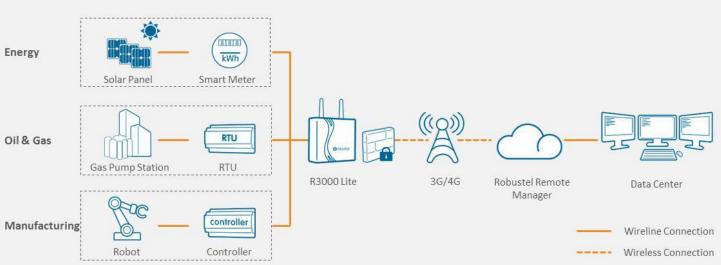
The Robustel Industrial Dual SIM Cellular VPN Router (R3000 Lite) is a rugged cellular router offering state-of-the-art mobile connectivity for machine to machine (M2M) applications.

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)



APPLICATION EXAMPLE

SPECIFICATIONS

Cellular Interface Number of antennas Connector	2 (MAIN + AUX) SMA-K	Power Supply and Connector	3.5 mm terminal block 9 to 36V DC
SIM	2 (3 V & 1.8 V)	Power consumption	Idle: 100 mA@12 V Date link: 400 mA (peak) @12 V
Standards	GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA/ HSPA+/DC-HSPA+/TD-SCDMA/CDMA (CDMA 1X/EVDO)/FDD LTE/TDD LTE	-SCDMA/CDMA (CDMA Physical Characteristics	
Ethernet Interface Number of ports Magnet isolation	1 x 10/100 Mbps LAN port 1.5 KV	Housing & Weight Dimensions Installations	Metal, 305 g 105 x 98 x 29.5 mm Desktop or wall mounting or 35 mm DIN rail mounting
Serial Interface Number of ports Connector ESD protection Baud rate	1 x RS-232 + 1 x RS-485 DB9, female ±15 KV 300 bps to 230400 bps	Approvals Regulatory Carrier Application	CE. FCC. PTCRB. RCM. IMDA. EAC.TELEC. ICASA Telefonica, AT&T, Verizon IEC 61000-4-12(Electromagnetic Compatibility – Oscillatory Waves Immunity Test) IEC 61000-4-18(Electromagnetic compatibility
Others Reset button Expansion LED indicators Built-in	1 x RST 1 x USB 2.0 host up to 480 Mbps 1 x RUN, 1 x PPP, 1 x USR, 3 x RSSI RTC, Watchdog, Timer	Environmental EMI EMS	 Damped Oscillatory Wave Immunity Test) RoHS, WEEE EN 55032: 2012/AC: 2013 (CE & RE) Class B 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
Software (Basic features of Network protocols	of RobustOS) PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP, HTTPs, DNS, ARP, NTP, SMTP, Telnet, VLAN, SSH2, DDNS, etc. IPsec, OpenVPN, GRE		IEC 61000-4-6 (CS) level 3
Firewall Management Serial port	DMZ, anti-DoS, Filtering (IP/Domain name/ MAC address), Port Mapping, Access Control Web, CLI, SMS Transparent, TCP Client/Server, UDP,	Cellular •	SIM Slot 6 x LED Indicators
App Center (Available Ap Available apps for	Modbus RTU Gateway pps for RobustOS) L2TP, PPTP, DMVPN, RobustVPN, VRRP, QoS,	Main Antenna	Aux Antenna LAN Port 1 x RS-232 + 1 x RS-485
RobustOS *Request on demand. For m	SNMP, Language, RobustLink nore Apps please visit www.robustel.com.	3.5 mm	1 x USB Host

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+/DC-HSPA+/TD-SCDMA/
		HSPA+	CDMA (CDMA 1X/EVDO)/FDD LTE/TDD LTE
Frequency Bands		-	Global: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/
4G			B19/B20/B25/B26/B28, B38/B39/B40/B41
			AU: B1/B2/B3/B4/B5/B7/B8/B28, B40
			US: B2/B4/B5/B13/B17
			EMEA: B1/B3/B7/B8/B20/B28A
			JP: B1/B3/B8/B18/B19/B26, B41
3G	B1/B8	B1/B2/B4(AWS)/B5/B8/B19	Global: WCDMA B1/B2/B4/B5/B6/B8/B19, B34/B39
			AU: WCDMA B1/B8
			US: HSPA+ B2/B5
			EMEA: WCDMA B1/B8
			JP: WCDMA B1/B6/B8/B19
2G	B2/B3/B5/B8	B2/B3/B5/B8	EMEA: B3/B8
			Global/AU: B2/B3/B5/B8
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
Storage Environment	-40 to +85 °C/5 to 95% RH	-40 to +85 °C/5 to 95% RH	-40 to +85 °C/5 to 95% RH

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



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