

R3000 robustos

Industrial Dual SIM Cellular VPN Router 2 Eth + 1 RS-232 + 1 RS-485 + 1 USB Host





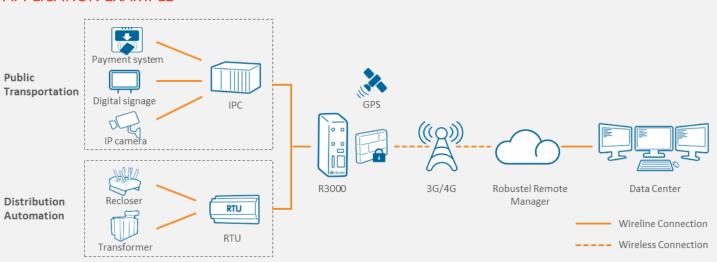
The Robustel Industrial Dual SIM Cellular VPN Router (R3000) is a rugged cellular router offering state-of-the-art mobile connectivity for machine to machine (M2M) applications.

R3000 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, the UK, Japan and Hong Kong.

KEY FEATURES

- The feature Link Manager supporting WWAN1, WWAN2, Ethernet WAN, WLAN WAN link backup and ICMP detection
- The option Backup Mode supporting cold, warm and load balancing
- RobustOS + SDK + App
- IPsec/OpenVPN/GRE/L2TP/PPTP/ DMVPN
- Management and maintenance via Web/CLI/SNMP/RobustLink Cloud
- Robust industrial design (9 to 60V DC, desktop or wall mounting or DIN rail mounting)



APPLICATION EXAMPLE

SPECIFICATIONS

Cellular Interface Number of antennas Connector SIM Ethernet Interface	2 (MAIN + AUX) SMA female 2 (3 V & 1.8 V)	Others Reset button SD Expansion LED indicators	1 x RST 1 x Micro SD interface 1 x USB 2.0 host up to 480 Mbps 1 x RUN, 1 x PPP, 1 x USR, 1 x RSSI, 1 x NET,
Number of ports Magnet isolation	2 x 10/100 Mbps, 2 x LAN or 1 x LAN + 1 x WAN 1.5 KV	Built-in Software (Basic feature: Network protocols	RTC, Watchdog, Timer s of RobustOS) PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP,
WiFi Interface (Optional Number of antennas Connector Standards) 1 RP-SMA male 802.11a/b/g/n, supporting AP and Client modes	VPN tunnel Firewall Management Serial port	IPsec, OpenVPN, GRE DMZ, anti-DoS, Filtering (IP/Domain name/ Web, CLI, SMS Transparent, TCP Client/Server, UDP,
Frequency bands Security	2.4 GHz 5 GHz Open, WPA, WPA2, WEP	App Center (Available / Apps* *Request on demand. For	Apps for RobustOS) L2TP, PPTP, DMVPN, RobustVPN, VRRP, QoS, more Apps please visit www.robustel.com.
Encryption Data speed	AES, TKIP, WEP64 Up to 150 Mbps	Power Supply and Co	-
GPS/GLONASS Interfac Number of antennas	1 SMA female with 50 ohms impedance GPS: greater than -148 dBm GLONASS: greater than -140 dBm GPS: 2.5 m GLONASS: 4.0 m	Connector Input voltage Power consumption	3-pin 5 mm female socket with lock 9 to 60V DC Idle: 100 mA@12 V
Connector Tracking sensitivity Horizontal position accuracy		Physical Characterist Ingress protection Housing & Wight Dimensions Installations	t ics IP30 Metal, 570 g 125 x 104 x 43.5 mm Desktop, wall mounting and 35 mm DIN rail
Protocol Serial Interface Number of ports Connector ESD protection Baud rate	NMEA-0183 V2.3 1 x RS-232 + 1 x RS-485 or 2 x RS-232 or 2 x RS-485 7-pin 3.5 mm female socket with lock ±15 KV 300bps to 230400bps	Approvals Regulatory Carrier Application	CE, NBTC, FCC, RCM, PTCRB, GCF, IC, IMDA, EAC, Anatel, UL, CB, ICASA AT&T, Rogers, Vodafone E-mark (Vehicle), IEC 61000-4-12 (Electromagnetic Compatibility - Oscillatory Waves Immunity Test),
DI/DO			EN50155 (Railway Applications - Electronic

ORDERING INFORMATION

Model	R3000-3P	R3000-4L	R3000-NU
Router Type	HSPA+ Router	LTE Router	Wireline Router
Air Interface	GSM/GPRS/EDGE/HSDPA/	GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA/HSPA+/DC-HSPA+/	
	HSUPA/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/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	
Operating	-40 to +75 °C	-40 to +75 °C	-40 to +75 °C
Environment	5 to 95% RH	5 to 95% RH	5 to 95% RH

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



IEC 61000-4-6 (CS) Level 4 IEC 61000-4-8 (M/S) Level 4