Robustel R3000 Quad Get Quote

PRODUCT DATASHEET





R3000 Quad robustos

Industrial Cellular VPN Router with 4 Ethernet Ports 4 Eth + 1 RS-232/1 RS-485 + 1 USB Host

INTRODUCTION

The Robustel Industrial Cellular VPN Router with 4 Ethernet Ports (R3000 Quad) is a rugged cellular router offering state-of-the-art mobile connectivity for machine to machine (M2M) applications.

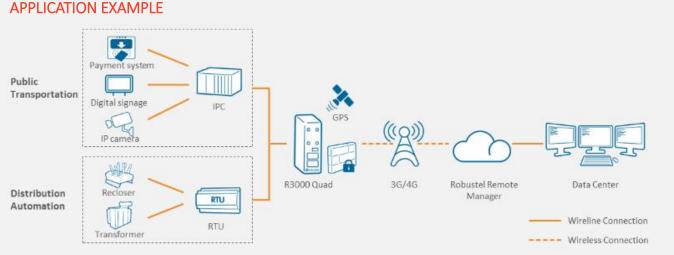
R3000 Quad is a powerful router developed from RobustOS, a Robustel self-developed and Linux-based operating system which is designed to be used in Robustel devices. The RobustOS includes basic networking features and protocols providing customers with a very good user experience. Meanwhile, Robustel 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, > 18~75VDC(optional), desktop or wall mounting or DIN rail mounting)



APPLICATION EXAMPLE



SPECIFICATIONS

Cellular Interface Number of antennas Connector SIM	2 (MAIN + AUX) SMA female 2 (3 V & 1.8 V)	Software (Basic featu Network protocols	res of RobustOS) PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP, HTTPs, DNS, ARP, NTP, SMTP, Telnet, VLAN, SSH2, DDNS, etc.
Ethernet Interface Number of ports Magnet isolation protection	4 x 10/100 Mbps, 4 x LAN or 3 x LAN + 1 x WAN 1.5 KV	VPN tunnel Firewall Management Serial port	IPsec, OpenVPN, GRE DMZ, anti-DoS, Filtering (IP/Domain name/ MAC address), Port Mapping, Access Control Web, CLI, SMS Transparent, TCP Client/Server, UDP,
WiFi Interface (Optional Number of antennas Connector Standards Frequency bands	1 RP-SMA male 802.11a/b/g/n, supporting AP and Client modes 2.4 GHz	App Center (Available Apps*	Modbus RTU Gateway
Security Encryption Data speed	5 GHz Open, WPA, WEP AES, TKIP, WEP64 Up to 150 Mbps	Power Supply and Co Connector Input voltage	nsumption 3-pin 5 mm female socket with lock 9 to 60V DC, 18~75VDC, support reverse polarity protection (optional)
GPS/GLONASS Interface Number of antennas Connector	e (Optional) 1 SMA female with 50 ohms impedance	Power consumption	ldle: 100 mA@12 V, 55 mA@24V,30 mA@48V; Data link (peak): 400 mA@12 V, 215 mA@24V, 115 mA@48V
Acquisition sensitivity Horizontal position accuracy Protocol	GPS: greater than -148 dBm GLONASS: greater than -145 dBm GPS: 2.5 m GLONASS: 2.6 m NMEA-0183 v4.10	Physical Characteristi Ingress protection Housing & Weight Dimensions Installations	IP30 Metal, 570 g 125 x 104 x 43.5 mm Desktop or wall mounting and 35 mm DIN rail
Serial Interface (Softwar Number of ports Connector Baud rate Isolation	a selectable) 1 x RS-232 or 1 x RS-485 7-pin 3.5 mm female socket with lock 300bps to 230400bps 2.5KV(optional)	Approvals Regulatory Application	mounting RCM, CE, EAC IEC 60945 (Maritime Navigation and Radiocommunication Equipment and Systems)
Others Reset button SD Expansion CLI LED indicators Built-in	1 x RST 1 x Micro SD interface 1 x USB 2.0 host up to 480 Mbps 1 x CLI interface 1 x RUN, 1 x PPP, 1 x USR, 1 x RSSI, 1 x NET, 1 x SIM RTC, Watchdog, Timer	Environmental EMI EMS	RoHS, WEEE EN 55032: 2012/AC: 2013 (CE & RE) Class B IEC 61000-4-2 (ESD)connect Level2; Air Level 3 IEC 61000-4-3 (RS) Level 2 IEC 61000-4-4 (EFT) Level 2 IEC 61000-4-5 (Surge) Level 3 IEC 61000-4-6 (CS) Level 2

ORDERING INFORMATION

Model	R3000-Q3PB	R3000-Q4LB	R3000-QLB
Router Type	HSPA+ Router	LTE Router	Wireline Router
Air Interface	GSM/GPRS/EDGE/HSDPA/HS	GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA/HSPA+/DC-HSPA+/TD-SCD	
	UPA/HSPA+	MA/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.

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Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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