PRODUCT DATASHEET

10 robustel

R3000 Quad robustes

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.

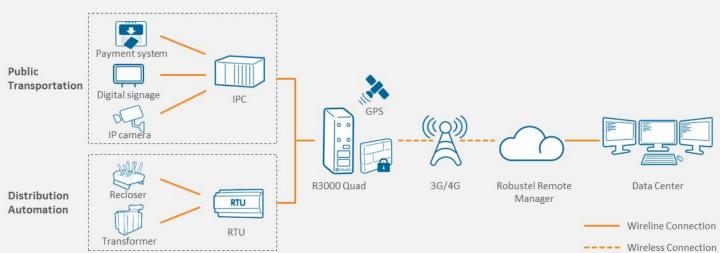
Robustel is a leading global industrial IoT/M2M hardware and solution provider. Since its establishment in 2010 in Guangzhou, China, Robustel has been focusing on designing and manufacturing industrial cellular routers, gateways, modems, cloud platforms and E2E solutions. In order to support global business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

CERTIFICATIONS

CE, R & TTE, RCM, RoHS, WEEE



APPLICATION EXAMPLE

SPECIFICATIONS

Cellular Interface

Number of antennas 2 (MAIN + AUX) Connector SMA, female SIM 2 (3 V & 1.8 V)

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

WiFi Interface (Optional)

Number of antennas	1	
Connector	RP-SMA, male	
Standards	802.11a/b/g/n, supporting AP and Client modes	
Frequency bands	2.412 - 2.484 GHz (2.4 GHz ISM band)	
	4.910 - 5.825 GHz (5 GHz ISM band)	
Security	Open, WPA, WEP	
Encryption	AES, TKIP, WEP64	
Data speed	Up to 150 Mbps	

GPS/GLONASS Interface (Optional)

		•••	•
Number of antennas	1	Connector	5 mm terminal block with loc
Connector	SMA, female, with 50 ohms impedance	Input voltage	9 to 60V DC
Tracking sensitivity	GPS: greater than -148 dBm	Power consumption	Idle: 100 mA@12 V
	GLONASS: greater than -140 dBm		Data link: 400 mA (peak) @12
Horizontal position	GPS: 2.5 m	Physical Characteristics	
accuracy	GLONASS: 4.0 m		
Protocol	NMEA-0183 V2.3	Ingress protection	IP30
		Housing & Wight	Metal, 570 g
Protocol	NMEA-0183 V2.3	•	

LED indicators

Network protocols

VPN tunnel

Management

Serial port

Apps

EMI

EMS

Firewall

Built-in

Serial Interface (Software selectable)

Number of ports	1 x RS-232 or 1 x RS-485
Connector	7-pin pluggable terminal block with lock, female
Baud rate	300bps to 230400bps
Others	

Others		
Reset button	1 x RST	
SD	1 x Micro SD interface	
Expansion	1 x USB 2.0 host up to 480 Mbps	
CLI	1 x CLI interface	

Power Supply and Consumption ck L2 V Dimensions 125 x 104 x 43.5 mm Installations Desktop or wall mounting and 35 mm DIN rail mounting EMC EN 55022: 2006/A1: 2007 (CE & RE) Class B IEC 61000-4-2 (ESD) Level 3 IEC 61000-4-3 (RS) Level 4 IEC 61000-4-4 (EFT) Level 4 IEC 61000-4-5 (Surge) Level 4

> IEC 61000-4-6 (CS) Level 3 IEC 61000-4-8 (M/S) Level 4

1 x RUN, 1 x PPP, 1 x USR, 1 x RSSI, 1 x NET, 1 x

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

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

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

MAC address), Port Mapping, Access Control

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

Transparent, TCP Client/Server, UDP,

SIM

Software (Basic features of RobustOS)

App Center (Available Apps for RobustOS)

RTC, Watchdog, Timer

SSH2, DDNS, etc.

Web, CLI, SMS

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

IPsec, OpenVPN, GRE

Modbus RTU Gateway

SNMP, Language, RobustLink

ORDERING INFORMATION

Model	R3000-Q3P	R3000-Q4L
Router Type	HSPA+ router	LTE router
Air Interface	GSM/GPRS/EDGE/HSDPA/HSUPA/HSPA+	GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA/HSPA+/DC-HSPA+/TD-SCD 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 Environment	-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.



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