GoRugged R2000

Industrial Dual SIM Cellular VPN Router

For GSM/GPRS/EDGE/UMTS/TD-SCDMA/CDMA/WCDMA/HSPA+/E-UTRA/LTE Networks

Robustel GoRugged R2000 is a rugged cellular router offering state-of-the-art mobile connectivity for machine to machine (M2M) applications.

Key Features

- Dual SIM redundancy for continuous cellular connections; supports 2G/3G/4G
- WAN Static/PPPoE/DHCP Client
- Multiple links backup and ICMP detection
- VPN tunnel IPsec/OpenVPN/GRE
- Advanced firewall: filtering, port mapping, DMZ
- Supports DDNS
- Supports VRRP
- Supports SNMP report events which include system startup, system reboot, system time update etc.
- WAN port supporting PD feature compatible with 802.3at. (optional)
- The metal enclosure can be mounted on a DIN rail, on the wall or be put on desktop
- Management and upgrading via web user interface/SMS/CLI
- Auto reboot via SMS/Timing
- Includes built-in Watchdog/Timer



Typical Applications

- ATM/Vending Machine/Retail POS/Kiosks
- Branch Offices
- Convenience Stores
- Quick Service Restaurants
- Digital Signage
- IP Video Surveillance

Ordering Information

Model No.	Frequency Bands	Operating Environment
R2000-3P	HSDPA/HSUPA/HSPA+: 800/850/900/AWS/1800/1900/2100 MHz	-20 to 65°C/5 to 95% RH
	WCDMA: 900/2100 MHz	
	CDMA (CDMA1X/EVDO): BC0	
	TD-SCDMA: 1900/2100 MHz	
	UMTS: 800/850/900/1800/1900/2100 MHz	
	GSM/GPRS/EDGE: 850/900/1800/1900 MHz	
R2000-4L	FDD LTE: B1, B2, B3, B4, B5, B7, B8, B18, B19, B20, B21, B28, B31	-20 to 65°C/5 to 95% RH
	TDD LTE: B38, B39, B40, B41	
	3GPP E-UTRA Release 11	
	HSDPA/HSUPA/HSPA+: 850/900/1900/2100 MHz	
	WCDMA: 850/900/2100 MHz	
	CDMA (CDMA1X/EVDO): BC0	
	TD-SCDMA: 1900/2100 MHz	
	UMTS: 800/850/900/1800/2100 MHz	
	GSM/GPRS/EDGE: 850/900/1800/1900 MHz	



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Specifications

Cellular Interface

 Standards: GSM/GPRS/EDGE/UMTS/TD-SCDMA/ CDMA/WCDMA/HSPA+/E-UTRA/LTE

• GSM: max DL/UL = 9.6/2.7 Kbps

GPRS: max DL/UL = 86 Kbps

• EDGE: max DL/UL = 236.8 Kbps

• UMTS: max DL/UL = 384 Kbps

• TD-SCDMA: max DL/UL = 2.8 Mbps/384 Kbps

• CDMA: max DL/UL = 3.1 Mbps/1.8 Mbps

• WCDMA: max DL/UL = 14.4 Mbps/384 Kbps

• HSPA+: max DL/UL = 21.6/5.76 Mbps, fallback to 2G

• TDD LTE: max DL/UL = 112/10 Mbps, fallback to 2G/3G

• FDD LTE: max DL/UL = 150/50 Mbps, fallback to 2G/3G

• SIM: 2 x (3 V & 1.8 V)

Connector: SMA, male (1 x MAIN + 1 x AUX)

Ethernet Interface

Number of ports: 2 x LAN or 1 x LAN, 1 x WAN (10/100 Mbps)

WAN port supports 802.3 at PD feature (optional)

WLAN Interface (optional)

 Standards: 802.11 b/g/n supporting AP and Client mode

Data speed: 2*2 MIMO, 300 MbpsFrequency band: 2.412 - 2.485 GHz

Security: WEP, WPA, WPA2
Encryption: 64/128 AES, TKIP
Connector: RP-SMA, female

System

1 x Reset button

• LED indicators: 1 x RUN, 1 x PPP, 1 x USR, 3 x RSSI

Software

 Network protocols: PPP, TCP, UDP, DHCP, ICMP, NAT, DMZ, DDNS, VRRP, HTTP, HTTPs, DNS, ARP, SNTP, Telnet, SNMP etc.

• VPN tunnel: IPsec/OpenVPN/GRE

• Firewall: SPI, anti-DoS, Filter, Access Control

• Management methods: Web, SMS, CLI

Contact:

www.robustel.com info@robustel.com

Power Supply and Consumption

• Connector: 3.5 mm terminal block

• Input voltage:

9 to 26V DC (A014401, A014402, A014403, A014404, A014405, A014406, A014701, A014702, A014703, A014704, A014705, A014706);

9 to 36V DC

Power consumption: Idle: 100 mA @ 12 V
 Data link: 500 mA (peak) @ 12 V

 PD feature: WAN interface supported, input voltage: 48~57V DC (optional)

Note: It is not recommended to use DC power supply and PD power supply simultaneously.

Physical Characteristics

• Housing & Weight: Metal, 300 g

• Dimensions: 127.5 x 82.5 x 29.5 mm

 Installations: Horizontal surface placement, wall mounting and DIN rail mounting

Regulatory and Type Approvals

• Approvals & Certificates: CE, RCM

• EMC:

EMI: EN 55022: 2006/A1: 2007 (CE&RE) Class B

EMS: IEC 61000-4-2 (ESD) Level 4, IEC 61000-4-4 (EFT) Level 3, IEC 61000-4-5 (Surge) Level 3

Package Contents

- 1 x Robustel R2000 Industrial Dual SIM Cellular VPN Router
- 1 x Terminal block for power
- 1 x *Quick Start Guide* with download link of other documents or tools

Optional Accessories (sold separately)

- AC/DC power adapter
- SMA cellular antenna (HSPA+/LTE)
- Stubby/magnet RP-SMA Wi-Fi antenna
- Wall mounting kit
- 35 mm DIN rail mounting kit

