

# GoRugged R2000

## Dual SIM Industrial Cellular VPN Router

### For GSM/GPRS/EDGE/UMTS/HSPA+/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
- Various interfaces: 2xLAN/1xLAN, 1xWAN, Wi-Fi
- WAN: static, PPPOE and DHCP client
- Multiple links backup and ICMP detection
- VPN tunnel: IPsec/OpenVPN/GRE
- Auto reboot via SMS/Timing
- Flexible management methods: Web/SMS/CLI
- Firmware upgrade via Web/CLI/SMS
- 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 interface support PD feature, compatible 802.3at. (optional)
- The metal enclosure can be mounted on a DIN rail, on the wall or be put on desktop
- Built-in Watchdog, Timer



#### Applications

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

#### Selection and Ordering Data

Model No.	Frequency Band	Operating Environment
R2000-3P	HSDPA/HSUPA/HSPA+: 800/850/900/AWS/1900/2100 MHz GSM/GPRS/EDGE: 850/900/1800/1900 MHz	-20 to +65°C/5 to 95% RH
R2000-4L	FDD LTE: B1, B2, B3, B4, B5, B7, B8, B13, B17, B18, B19, B20, B21, B25, B28, B31 TDD LTE: B38, B39, B40, B41 UMTS/DC-HSPA+/HSPA+/HSPA: 2100/1900/850/900/1800 MHz GSM/GPRS/EDGE: 850/900/1800/1900 MHz	-20 to +65°C/5 to 95% RH

#### Packing List

- Robustel R2000 router
- Terminal block for power
- Document and software CD

#### Optional Accessories (can be purchased separately)

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

# GoRugged R2000

## Dual SIM Industrial Cellular VPN Router

### Specifications

#### Cellular Interface

- Standards: GSM/GPRS/EDGE/UMTS/HSPA+/FDD LTE/TDD LTE
- FDD LTE: max. 150/50 Mbps (DL/UL)
- TDD LTE: max.112/10 Mbps (DL/UL)
- DC-HSPA+: 42/5.76 Mbps (DL/UL)
- HSPA+: max. 21.6/5.76 Mbps (DL/UL)
- EDGE: 236.8 kbps (DL/UL)
- GPRS: 85.6 kbps (DL/UL)
- SIM: 2 x (3V & 1.8V)
- Antenna interface: SMA female (1xMAIN and 1xAUX)

#### Ethernet Interface

- Number of ports: 2xLAN or 1 x LAN, 1xWAN (10/100Mbps)
- WAN interface supports 802.3at PD feature (optional)

#### WLAN Interface (optional)

- Standards: 802.11 b/g/n, support AP and Client mode
- Data speed: 2\*2 MIMO, 300Mbps
- Frequency band: 2.412 - 2.485 GHz
- Security: WEP, WPA, WPA2
- Encryption: 64/128 AES, TKIP
- Antenna interface: RP-SMA female

#### System

- Reset button
- LED indicators: RUN, PPP, USR, 3 x RSSI

#### Software

- Network protocols: PPP, TCP, UDP, DHCP, ICMP, NAT, DMZ, DDNS, VRRP, HTTP, HTTPS, DNS, ARP, SNMP, Telnet, SNMP etc.
- VPN tunnel: IPSec/OpenVPN/GRE
- Firewall: SPI, anti-DoS, Filter, Access Control
- Management methods: Web, SMS, CLI

#### CPU & Memory

- CPU: 535MHz
- SDRAM: 64MB
- FLASH: 16MB

#### Power Supply and Consumption

- Power supply interface: 3.5mm 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 supports, input voltage: 48~57V DC (optional)

#### Physical Characteristics

- Housing & Weight: Metal, 300g
- Dimension (L x W x H): 127.5mm x 82.5mm x 29.5mm
- Installation: 35mm DIN rail or wall mounting or desktop

#### 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

#### Contact:

[www.robustel.com](http://www.robustel.com)  
[info@robustel.com](mailto:info@robustel.com)