

GoRugged R2000

Dual SIM Industrial Cellular VPN Router

For GPRS/EDGE/UMTS/HSPA+/4G 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, WiFi.
- 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.
- Support DDNS.
- Support VRRP.
- Support SNMP report events which include system startup, system reboot, system time update etc.
- Wide range input voltages from 9 to 36 VDC.
- WAN interface support PD feature, compatible 802.3at.
- 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	Mini PCIE module HSPA+: 2100/900 MHz or 2100/900/850 MHz GSM/GPRS/EDGE: 850/900/1800/1900 MHz	-20 to +65°C/ 5 to 95% RH
R2000-4L	Mini PCIE module 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

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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
- Magnet Isolation Protection: 4KV

WLAN Interface (Optional)

- Standards: 802.11b/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

Regulatory and Type Approvals

- Approval & Certificate: CE, RCM
- EMC:
 - EMI: EN 55022: 2006 / A1: 2007 (CE) Class B,
EN 55022: 2006 / A1: 2007 (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

Packing List

- Robustel R2000 Router
- Terminal Block for Power
- Document and Software CD

System

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

CPU & Memory

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

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: Web, SMS, CLI

Power Supply and Consumption

- Power Supply Interface: 3.5mm terminal block
- Input Voltage: 9 to 36 VDC
- Power Consumption: Idle: 100 mA @ 12 V
Data Link: 500 mA (peak) @ 12 V
- PD feature: WAN interface supports, input voltage: 48~57 VDC.

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

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)

Contact:

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