

GoRugged R2000 Dual

Dual Module Industrial Cellular VPN Router

For GPRS/EDGE/UMTS/WCDMA/HSPA+/FDD LTE Networks

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

Key Features

- Two modules embedded, support two SIM cards online in the meantime.
- Two SIM cards backup mutually for continuous cellular connections and supports 2G/3G/4G.
- Various interfaces: 1xWAN, 4xLAN, Wi-Fi, POE, ACC.
- WAN: static, PPPOE and DHCP client.
- Multiple links backup and ICMP detection.
- VPN tunnel: IPsec/ OpenVPN/GRE/L2TP/PPTP/DMVPN.
- Auto reboot via SMS/Timing.
- Flexible Management methods: Web/SMS/CLI.
- Firmware upgrade via Web/CLI/SMS.
- Advanced Firewall: filtering, port mapping, DMZ.
- Support QoS.
- 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 48 VDC.
- The metal enclosure can be mounted on a DIN-rail, on the wall or be put on desktop.



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 Dual-3P	PCIE module WCDMA/HSDPA/HSUPA/HSPA+: 850/1900/2100 MHz GSM/GPRS/EDGE: 850/900/1800/1900 MHz	-40 to +70°C/ 5 to 95% RH
R2000 Dual-4L	PCIE module LTE FDD: B1, B2, B3, B4, B5, B7, B8, B20 DC-HSPA+/HSPA+/HSPA/UMTS: 850/900/1900/2100 MHz GSM/GPRS/EDGE: 850/900/1800/1900 MHz	-40 to +70°C/ 5 to 95% RH

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Specifications

Cellular Interface

- Standards: GSM/GPRS/EDGE/UMTS/WCDMA/HSPA/HSDPA/HSUPA/HSPA+/DC-HSPA+/FDD LTE
- FDD LTE: max. 150 / 50 Mbps (DL/UL) @20M BW cat4
- DC-HSPA+: 42 / 5.76 Mbps (DL/UL)
- HSPA+: max. 21.6 / 5.76 Mbps (DL/UL)
- WCDMA: 384 / 384 kbps (DL/UL)
- EDGE: 236.8 kbps (DL/UL)
- GPRS: 85.6 kbps (DL/UL)
- SIM: 2 (3V & 1.8V)
- Antenna Interface: SMA Female(2xMAIN and 1xAUX)

Ethernet Interface

- Number of Ports: 1xWAN and 4xLAN (10 / 100Mbps)
- Magnet Isolation Protection: 1.5KV

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 x2

Other Interface

- POE
Four ports power supply output
IEEE802.3 at/af standard compatibility
Maximum power output up to 70W per port
Power management function
- ACC

System

- Reset button
- LED Indicators: 1*RUN, 2*USR, 2*PPP, 1*WIFI, 6*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, SSH, Telnet, SNMP, AAA etc.
- VPN tunnel: IPSec/OpenVPN/GRE/L2TP/PPTP/DMVPN
- 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 48 VDC
- Power Consumption: Idle: 100 mA @ 12 V
Data Link: 500 mA (peak) @ 12 V
- With ground screw

Physical Characteristics

- Housing & Weight: Metal, 350g
- Dimension: 145mm x 130mm x 46mm
- Installation: 35mm Din-Rail or wall mounting or desktop

Regulatory and Type Approvals

- Approval & Certificate: CE
EMC:
EN55022: 2006/A1: 2007 (CE) Class B
EN55022: 2006/A1: 2007 (RE) Class B
EN 61000-4-2 (ESD) Level 4
EN 61000-4-4 (EFT) Level 4
EN 61000-4-5 (Surge) Level 3

Packing List

- Robustel R2000 Dual 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)

Contact:

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