

GoRuggedR2000

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 26 VDC.
- 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	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	LTE FDD: B1, B2, B3, B4, B5, B7, B8, B20 LTE TDD: 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)
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

Regulatory and Type Approvals

Approval & Certificate: CE, R&TTE, RoHS, WEEE
EMI : EN 55022 (2006 / A1: 2007) Class B
EMC: EN 61000-4-2 (ESD) Level 3, EN 61000-4-3 (RS) Level 4
EN 61000-4-4 (EFT) Level 3, EN 61000-4-5 (Surge) Level 3
EN 61000-4-6 (CS) Level 3, EN 61000-4-8 Level 4

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 26 VDC
Power Consumption: Idle: 100 mA @ 12 V
Data Link: 500 mA (peak) @ 12 V

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)



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