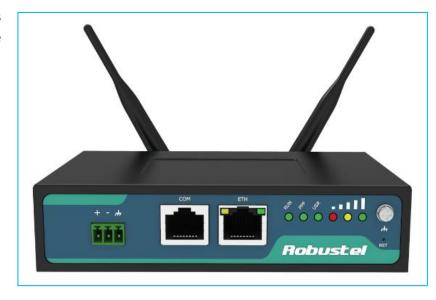# GoRugged R2000 Lite

Dual SIM Industrial Cellular VPN Router

for GPRS/EDGE/UMTS/HSPA+/4G LTE Networks

Robustel GoRugged R2000 Lite is an enterprise-class 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.
- VPN tunnel: IPSec/ OpenVPN.
- Supports Modbus gateway (Modbus RTU to Modbus TCP).
- Auto reboot via SMS/ Timing.
- Flexible Management methods: Web/ CLI/SMS.
- Firmware upgrade via Web/CLI/SMS.
- Various interfaces: RS232/ RS485/ Ethernet.
- Wide range input voltages from 6 to 26 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

Regulatory and Type Approvals

- Approval & Detective: CE, R&TTE, RoHS, WEEE
- EMI : EN 55022 (2006/A1: 2007) Class B
- EMC: IEC 61000-4-2:2008(ESD) Level 4, IEC 61000-4-3:2010 (RS) Level 2
  IEC 61000-4-4:2012 (EFT) Level 4, IEC 61000-4-5:2005 (Surge) Level 3
  IEC 61000-4-6:2008 (CS) Level 2, IEC 61000-4-8:2009 Level 1

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Specifications

Cellular Interface
- Standards: GSM/GPRS/EDGE/UMTS/HSPA+/FDD LTE
- HSPA+: max. 21/5.76 Mbps (DL/UL)
- FDD LTE: max. 100/50 Mbps (DL/UL)
- SIM: 2 x (3V & 1.8V)
- Antenna Interface: SMA Female

Ethernet Interface
- Number of Ports: 1 x 10/100Mbps
- Magnet Isolation Protection: 1.5KV

Serial Interface
- Number of Ports: 1 x RS-232 **or** 1 x RS-485
- ESD Protection: ±15KV
- Parameters: 8N1
- Baud Rate: 300bps to 230400bps
- RS-232: TxD, RxD, RTS, CTS, GND
- RS-485: Data+ (A), Data- (B)

System
- LED Indicators: RUN, PPP, USR, 3 x RSSI
- Built-in Watchdog, Timer

Software
- Network protocols: PPP, TCP, UDP, DHCP, ICMP, NAT, DMZ, DDNS, VRRP, HTTP, HTTPs, DNS, ARP, SNTP, Telnet, etc
- VPN tunnel: IPSec/OpenVPN
- Firewall: SPI, anti-DoS, Filter, Access Control
- Management: Web, CLI, SMS
- Serial Port: TCP client/server, UDP, Modbus RTU to Modbus TCP, Virtual COM (COM port redirector)

Power Supply and Consumption
- Power Supply Interface: 3.5mm terminal block
- Input Voltage: 6 to 26 VDC
- Power Consumption: Idle: 100 mA @ 12 V
  Data Link: 250 mA (peak) @ 12 V

Physical Characteristics
- Housing & Weight: Metal, 306g
- Dimension: (L x W x H): 127.2mm x 82.3mm x 29.5mm
- Installation: 35mm Din-Rail or wall mounting or desktop

Selection and Ordering Data

Model No.	Description	Operating Environment
R2000-L3PA	HSPA+ Router, UMTS/HSPA+ 900/ 2100 MHz, Quad band GSM/GPRS/EDGE; 1 Ethernet port, 1 RS232 port	-20 to 60°C/ 5 to 95% RH
R2000-L3PB	HSPA+ Router, UMTS/HSPA+ 900/ 2100 MHz, Quad band GSM/GPRS/EDGE 1 Ethernet port, 1 RS485 port	-20 to 60°C/ 5 to 95% RH
R2000-L4LA	FDD LTE Router, LTE B1/B2/B3/B5/B7/B8/B20, UMTS/DC-HSPA+ 850/900/1900/2100 MHz, Quad band GSM/GPRS/EDGE, 1 Ethernet port, 1 RS232 port	-20 to 60°C/ 5 to 95% RH
R2000-L4LB	FDD LTE Router, LTE B1/B2/B3/B5/B7/B8/B20, UMTS/DC-HSPA+ 850/900/1900/2100 MHz, Quad band GSM/GPRS/EDGE, 1 Ethernet port, 1 RS485 port	-20 to 60°C/ 5 to 95% RH

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

Optional Accessories (can be purchased separately)
- AC/DC Power Supply Adapter
- Rubber SMA Antenna
- 35mm Din-Rail mounting kit or Wall mounting kit
- Diversity antenna for HSPA+/LTE

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