

# GoRugged R3000 Lite

## Dual SIM Industrial Cellular VPN Router

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

Robustel GoRugged R3000 Lite 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.
- VPN tunnel: IPSec/OpenVPN/PPTP/L2TP/GRE.
- Supports Modbus gateway (Modbus RTU/ASCII to Modbus TCP).
- Auto reboot via SMS/Caller ID/Timing.
- Supports RobustLink (Centralized M2M management platform).
- Flexible Management methods: Web/CLI/SNMP/RobustLink.
- Firmware upgrade via Web/CLI/USB/SMS/RobustLink.
- Various interfaces: RS232/RS485/USB/Ethernet.
- Wide range input voltages from 9 to 26 VDC and extreme operating temperature.
- The metal enclosure can be mounted on a DIN-rail or on the wall.



#### Applications

- ATM/Vending Machine Connectivity
- Solar/Wind Energy Monitor
- Distribution Automation
- Automatic Meter Reading
- Industrial Automation
- IP Video Surveillance
- Remote Devices

#### Regulatory and Type Approvals

- Approval & Detective: CE, R&TTE, FCC, RCM, RoHS, WEEE
- EMC: EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 4  
EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 2  
EN 61000-4-6 (CS) Level 4, EN 61000-4-8, EN 61000-4-12

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## Dual SIM Industrial Cellular VPN Router

### Specifications

#### Cellular Interface

- Standards: GSM/GPRS/EDGE/UMTS/HSPA+/FDD LTE
- GPRS: max. 86 kbps (DL & UL), class 10
- EDGE: max. 236.8 kbps (DL & UL), class 12
- UMTS: max. 384 kbps (DL & UL)
- HSDPA: max. 3.6 Mbps/384 kbps (DL/UL)
- HSPA+: max. 14.4/5.76 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 10/100 Mbps
- Magnet Isolation Protection: 1.5KV

#### Serial Interface

- Number of Ports: 1 x RS-232 and 1 x RS-485
- ESD Protection:  $\pm 15$ KV
- Parameters: 8E1, 8O1, 8N1, 8N2, 7E2, 7O2, 7N2, 7E1
- Baud Rate: 300bps to 230400bps
- RS-232: TxD, RxD, RTS, CTS, GND
- RS-485: Data+ (A), Data- (B), GND
- Interface: DB9 Female

#### System

- LED Indicators: RUN, PPP, USR, 3 x RSSI
- Built-in RTC, Watchdog, Timer
- Expansion: 1 x USB 2.0 host up to 480 Mbps

#### Software

- Network protocols: PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, DMZ, RIP v1/v2, OSPF, DDNS, VRRP, HTTP, HTTPS, DNS, ARP, QoS, SNTP, Telnet, etc
- VPN tunnel: IPSec/OpenVPN/PPTP/L2TP/GRE
- Firewall: SPI, anti-DoS, Filter, Access Control
- Management: Web, CLI, SNMP v1/v2/v3, SMS, RobustLink
- Serial Port: TCP client/server, UDP, Modbus RTU/ASCII to Modbus TCP, Virtual COM (COM port redirector)
- RobustLink: Centralized M2M management platform

#### 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: 400 mA (peak) @ 12 V

#### Physical Characteristics

- Housing & Weight: Metal, 300g
- Dimension: (L x W x H): 105 x 100 x 30mm
- Installation: 35mm Din-Rail or wall mounting or desktop

### Selection and Ordering Data

Model No.	Description	Operating Environment
R3000-L3H	HSDPA Router, UMTS/HSDPA 900/2100 MHz, Quad band GSM/GPRS/EDGE	-40 to 85°C/5 to 95% RH
R3000-L3P	HSPA+ Router, UMTS/HSPA+ 850/900/1900/2100 MHz, Quad band GSM/GPRS/EDGE	-40 to 85°C/5 to 95% RH
R3000-L4L	FDD LTE Router, LTE 800/900/1800/2100/2600 MHz, UMTS 900/2100 MHz, GSM 900/1800/1900 MHz	-30 to 75°C/5 to 95% RH

#### Packing List

- Robustel R3000 Lite Router
- Terminal Block for Power
- Document and Software CD

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

- AC/DC Power Supply Adapter
- Rubber SMA Antenna
- Serial cable (DB9 Female to DB9 Male)
- 35mm Din-Rail mounting kit or Wall mounting kit
- Diversity antenna for HSPA+/LTE

