

# GoRugged R3000 Lite

## Dual SIM Industrial Cellular VPN Router

### for GPRS/EDGE/UMTS/HSPA+/EVDO/ 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/DMVPN.
- supports GRE over IPSec/L2TP over IPSec.
- Supports 802.1Q VLAN Trunk.
- Supports PPPoE Bridge.
- Supports Modbus gateway (Modbus RTU/ASCII to Modbus TCP) and Modbus Master.
- Auto reboot via SMS/incoming Call/Timing.
- Support alarm via Email, SMS, SNMP trap.
- Support AAA and FTP.
- Supports RobustLink (Centralized M2M management platform, to remote monitor, configure and update firmware).
- Supports RobustVPN (Cloud VPN Portal, to provide easy and secure remote access for PLCs and machines).
- 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 & Certification: CE, R&TTE, RCM, 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



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### Specifications

#### Cellular Interface

- Standards: GSM/GPRS/EDGE/UMTS/HSPA+/EVDO/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)
- EVDO: max. 14.7/5.4 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: Tx, Rx, RTS, CTS, GND
- RS-485: Data+ (A), Data- (B)
- Interface: DB9 Female

#### System

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

### 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-L3E | EVDO Rev A/B Router, CDMA450 1xEV-DO Rev-B,  | -25 to 75°C/5 to 95% RH  |
| R3000-L4L | FDD LTE Router, LTE B1/B2/B3/B5/B7/B8/B20/B31, UMTS/DC-HSPA+ 850 /900/1900/2100 MHz, GSM 850/900/1800/1900 MHz | -30 to 75°C/5 to 95% RH<br>(-20 to 55°C/5 to 95% RH 450MHz only) |

#### 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

#### Software

- Network protocols: PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, DMZ, RIP v1/v2, OSPF, DDNS, VRRP, HTTP, HTTPS, DNS, ARP, QoS, SNMP, Telnet, VLAN, SSH2, etc
- VPN tunnel: IPSec/OpenVPN/PPTP/L2TP/GRE/DMVPN
- 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
- RobustVPN: Cloud VPN Portal

#### 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

#### Packing List

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

#### Contact:

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