

GoRugged R3000 Lite

Dual SIM Industrial Cellular VPN Router

For GSM/GPRS/EDGE/UMTS/TD-SCDMA/EVDO/HSPA+/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
- Supports alarm via Email, SMS, SNMP trap
- Supports 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 6 to 26 VDC and extreme operating temperature
- The metal enclosure can be mounted on a DIN rail or on the wall

Regulatory and Type Approvals

- Approvals & Certificates: CE, R&TTE, RCM, RoHS, WEEE
- EMC:
 - EMI: EN 55022: 2006/A1: 2007 (CE&RE) Class B
 - EMS: IEC 61000-4-2 (ESD) Level 3
 - IEC 61000-4-3 (RS) Level 4
 - IEC 61000-4-4 (EFT) Level 3
 - IEC 61000-4-5 (Surge) Level 3
 - IEC 61000-4-6 (CS) Level 3
 - IEC 61000-4-8 (M/S) Level 4



Applications

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

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/magnet SMA cellular antenna for HSPA+/LTE
- Serial cable (DB9 female to DB9 male)
- 35 mm DIN rail mounting kit or wall mounting kit

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Specifications

Cellular Interface

- Standards: GSM/GPRS/EDGE/UMTS/TD-SCDMA/EVDO/HSPA+/LTE
- GSM: max. 9.6/2.7 Kbps (DL/UL)
- GPRS: max. 86 Kbps (DL/UL), class 10
- EDGE: max. 236.8 Kbps (DL/UL), class 12
- UMTS: max. 384 Kbps (DL/UL)
- TD-SCDMA: max. 2.8 Mbps/384 Kbps (DL/UL)
- EVDO: max. 14.7/5.4 Mbps (DL/UL)
- HSPA+: max. 21.6/5.76 Mbps (DL/UL)
- FDD LTE: max. 100/50 Mbps (DL/UL)
- TDD 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: 1.5 KV

Serial Interfaces

- Number of ports: 1 x RS232 and 1 x RS485
- ESD protection: ± 15 KV
- Parameters: 8E1, 8O1, 8N1, 8N2, 7E2, 7O2, 7N2, 7E1
- Baud rate: 300 bps to 230400 bps
- RS232: TxD, RxD, RTS, CTS, GND
- RS485: Data+ (A), Data- (B)
- 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, 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: 3.5 mm terminal block
- Input voltage: 6 to 26 VDC
- Power consumption: Idle: 100 mA @ 12 V
Data link: 400 mA (peak) @ 12 V

Physical Characteristics

- Housing & Weight: Metal, 300 g
- Dimension (L x W x H): 105 mm x 98 mm x 29.5 mm
- Installation: 35 mm DIN rail, wall mounting or desktop

Selection and Ordering Data

Model No.	Description	Frequency Range Selection	Operating Environment
R3000-L3H	HSDPA router	3G: UMTS 900/2100MHz HSDPA/HSUPA/HSPA 850/900/1900/2100MHz 2G: GSM/GPRS/EDGE 850/900/1800/1900MHz	-40 to 85°C /5 to 95% RH
R3000-L3P	HSPA+ router	3G: UMTS/HSDPA/HSUPA/HSPA 800/850/900/AWS/1900/2100MHz 2G: GSM/GPRS/EDGE 850/900/1800/1900MHz	-40 to 85°C /5 to 95% RH
R3000-L3E	EVDO router	3G: CDMA450 1xEV-DO Rev-B 2G: CDMA450 1xRTT	-25 to 75°C /5 to 95% RH
R3000-L4L	LTE router	4G: FDD LTE B1/B2/B3/B4/B5/B7/B8/B18/B19/B20/B21/B28/B31 TDD LTE B38/B39/B40/B41 3G: UMTS B1/B2/B5/B6/B8/B9/B19 HSDPA/HSUPA/HSPA B1/B2/B5/B6/B8/B9/B19 HSPA+/DC-HSPA B1/B2/B5/B6/B8 TD-SCDMA B34/B39 2G: GSM/GPRS/EDGE 850/900/1800/1900MHz	-30 to 75°C /5 to 95% RH

Contact:

www.robustel.com
info@robustel.com