



R2000 Lite robustOS

Industrial Dual SIM Cellular VPN Router
1 Eth + 2 SIM



INTRODUCTION

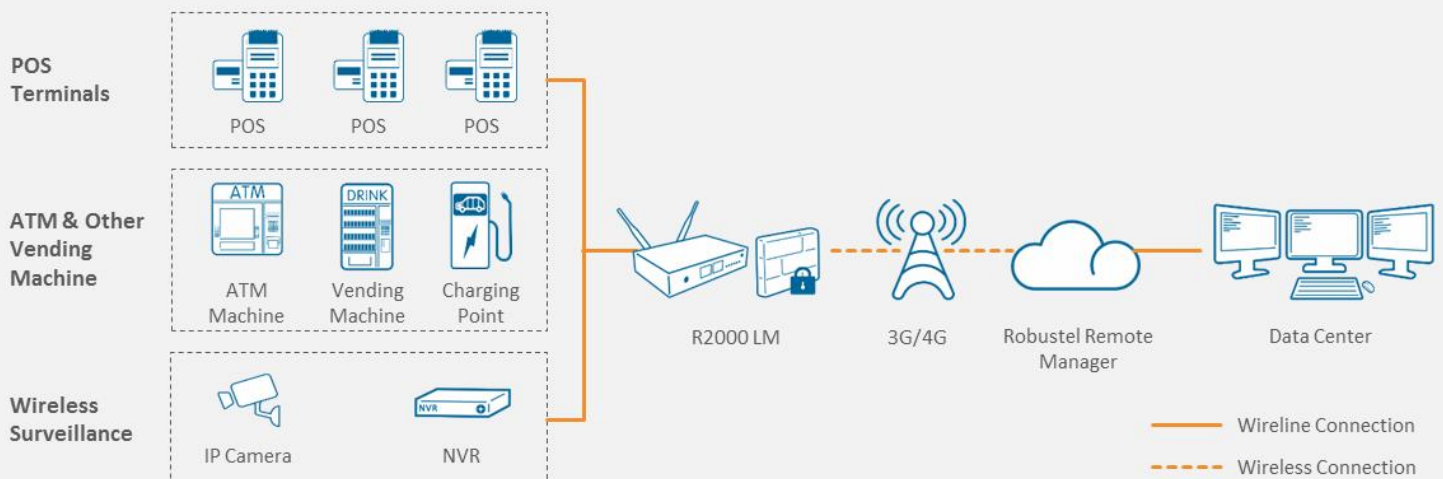
Robustel GoRugged R2000 Lite is a rugged cellular router offering state-of-the-art mobile connectivity for machine to machine (M2M) applications.

Robustel is a leading global industrial IoT/M2M hardware and solution provider. Since its establishment in 2010 in Guangzhou, China, Robustel has been focusing on designing and manufacturing industrial cellular routers, gateways, modems, cloud platforms and E2E solutions. In order to support global business in more than 100+ countries and regions, Robustel has set up local offices in Germany, Australia, the Netherlands, the UK, Japan and Hong Kong.

KEY FEATURES

- > Dual SIM redundancy for continuous cellular connections; supports 2G/3G/4G
- > Supports Cellular, WLAN link backup and ICMP detection
- > Wi-Fi supporting AP mode and Client mode(Wi-Fi optional)
- > VPN tunnel - IPsec/OpenVPN/GRE/L2TP/PPTP/DMVPN
- > Supports DDNS
- > Supports VRRP
- > Supports DHCP Server
- > Supports 802.1 Q VLAN Trunk
- > Supports App importing
- > Supports RobustLink (a centralized M2M management platform for remote monitoring, configuration and firmware upgrade)
- > Management and upgrading via web user interface/ SMS/CLI/RobustLink
- > Auto reboot via SMS/Timing
- > Includes built-in Watchdog/Timer
- > Supports SNMP report events which include system startup, system reboot, system time update etc.

APPLICATION EXAMPLE



SPECIFICATIONS

Cellular Interface

Number of antennas	2 (MAIN + AUX)
Connector	SMA male
SIM	2 (3 V & 1.8 V)

Ethernet Interface

Number of ports	1 x LAN(10/100 Mbps)
Magnet isolation protection	4 KV

WLAN Interface (Optional)

Connector	RP-SMA female
Standards	802.11b/g/n, supporting AP and Client modes
Frequency bands	2.412 - 2.485 GHz
Security	Open system/Shared key, WPA, WPA2
Encryption	64/128 WEP, TKIP
Data speed	2*2 MIMO, 300 Mbps

Others

Reset button	1 x RST
LED indicators	1 x RUN, 1 x PPP, 1 x USR, 3 x RSSI
Built-in	Watchdog, Timer

Serial Interface

Number of ports	1 x RS-232 or 1 x RS-485 (COM port with a RJ-45 connector)(2 options)
RS-232	TxD, RxD, RTS, CTS, GND
RS-485	Data+ (A), Data- (B)
ESD protection	±15 KV
Parameters	8N1 (Fixed and cannot be changed)
Baud rate	300 bps to 230400 bps
Connector	3.5 mm terminal block with lock

Software (Basic features of RobustOS)

Network protocols	PPP, TCP, UDP, DHCP, ICMP, NAT, DMZ, DDNS, VRRP, HTTP, HTTPs, DNS, ARP, SNTP, Telnet, SNMP etc..
VPN tunnel	IPsec/OpenVPN/GRE/L2TP/PPTP/DMVPN
Firewall	SPI, anti-DoS, Filter, Access Control
Management	Web, SMS, CLI, RobustLink

Power Supply and Consumption

Connector	2.1 DC Jack connector
Input voltage	9 to 36V DC
Power consumption	Idle: 100 mA@12 V Data link: 500 mA (peak) @12 V

Physical Characteristics

Housing & Weight	Metal, 300 g
Dimensions	127.5 x 82 x 29.5 mm
Installations	Horizontal surface placement, wall mounting and DIN rail mounting

ORDERING INFORMATION

Model	R2000-L3PA	R2000-L3PB	R2000-L4LA	R2000-L4LB
Air Interface	HSDPA/HSUPA/HSPA+/ GSM/GPRS/EDGE	HSDPA/HSUPA/HSPA+/ GSM/GPRS/EDGE	HSDPA/HSUPA/HSPA+/UMT S/TD-SCDMA/WCDMA/CDM A(CDMA1X/EVDO)/GSM/GP RS/EDGE/TDD LTE/FDD LTE	HSDPA/HSUPA/HSPA+/TD-S CDMA/CDMA(CDMA1X/EVD O)/WCDMA/GSM/GPRS/ED GE/TDD LTE/FDD LTE
Frequency Bands	--	--	B1/B2/B3/B4/B5/B7/B8/B20 /B28, B38/B39/B40/B41	B1/B2/B3/B4/B5/B7/B8/B20 /B28, B38/B39/B40/B41
4G*				
3G	HSDPA/HSUPA/HSPA+: B1/B2/B5/B8	HSDPA/HSUPA/HSPA+: B1/B2/B5/B8	HSDPA/HSUPA/HSPA+: B1/B2/B3/B5/B8 UMTS: B1 TD-SCDMA: B1/B2; CDMA (CDMA1X/EVDO): BC0	HSDPA/HSUPA/HSPA+: B1/B2/B3/B5/B8 UMTS: B1 TD-SCDMA: B1/B2; CDMA (CDMA1X/EVDO): BC0
2G	GSM/GPRS/EDGE 850/900/1800/1900 MHz	GSM/GPRS/EDGE 850/900/1800/1900 MHz	GSM/GPRS/EDGE 850/900/1800/1900 MHz	GSM/GPRS/EDGE 850/900/1800/1900 MHz
Operating Environment	-25 to +70 °C/5 to 95% RH	-25 to +70 °C/5 to 95% RH	-25 to +70 °C/5 to 95% RH	-25 to +70 °C/5 to 95% RH

*For more information about 4G frequency bands in different countries, please contact your Robustel sales representative.