



Industrial Dual SIM Cellular VPN Router 2 Eth + 2 SIM



INTRODUCTION

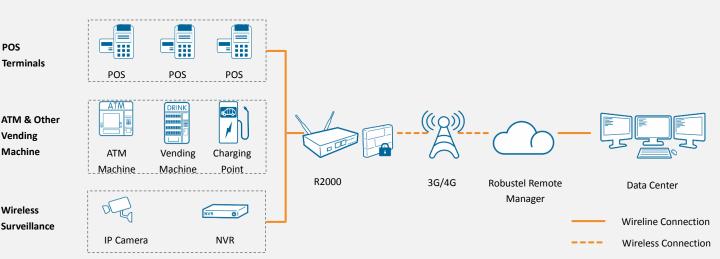
The Robustel Industrial Dual SIM Cellular VPN Router (R2000) is a rugged cellular router offering state-of-the-art mobile connectivity for machine to machine (M2M) applications.

R2000 is a powerful router developed from **RobustOS**, a Robustel self-developed and Linux-based operating system which is designed to be used in Robustel devices. The RobustOS includes basic networking features and protocols providing customers with a very good user experience. Meanwhile, Robustel offers a **Software Development Kit** (SDK) for partners and customers to allow additional customization by using C, Python or Java. It also provides rich **Apps** to meet fragmented IoT market demands.

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 2G/3G/4G cellular network connections
- The feature Link Manager supports Cellular WAN, Ethernet WAN, WLAN WAN link backup and ICMP detection
- WANTINK backup and felvir detection
- WAN Static/PPPoE/DHCP Client
 WAN port supports PD feature compatible with 802.3at. (optional)
- Supports IPv6
- RobustOS + SDK + App
- IPsec/OpenVPN/GRE/L2TP/PPTP/ DMVPN
- Management and maintenance via Web/CLI/SMS/RobustLink Cloud
- Auto reboot via SMS/Timing
- Robust industrial design (9 to 36V DC, desktop or wall mounting or DIN rail mounting)



APPLICATION EXAMPLE

SPECIFICATIONS

Cellular Interface

Cellular Interface Number of antennas Connector SIM	2 (MAIN + AUX) SMA-K 2 (3 V & 1.8 V)	Firewall Management Serial port	DMZ, anti-DoS, Filtering (IP/Domain name/ MAC address), Port Mapping, Access Control Web, CLI, SMS Transparent, TCP Client/Server, UDP, Modbus RTU Gateway	
Ethernet Interface Number of ports WAN port Magnet isolation WiFi Interface (Optional) Number of antennas	umber of ports 2 x 10/100 Mbps, 2 x LAN or 1 x LAN + 1 x WAN /AN port Supporting 802.3 at PD feature (optional) lagnet isolation 1.5 KV		Apps for RobustOS) L2TP, PPTP, DMVPN, RobustVPN, VRRP, QoS, Captive Protal, WLAN Multi AP, SNMP, Language, RobustLink more Apps please visit www.robustel.com.	
Connector Standards Frequency bands Security Encryption Data speed RF output power (+/-1 dBm)	RP-SMA-K 802.11b/g/n, supporting AP and Client modes 2.4 GHz WEP, WPA, WPA2 64/128 AES, TKIP 2*2 MIMO, 300 Mbps 802.11b 19 dBm 802.11g 19 dBm 802.11n (20 MHz) 18 dBm	Power Supply and Co Connector Input voltage Power consumption PD feature* (optional) *It is not recommended to	3-pin 3.5 mm female socket 9 to 36V DC Idle: 100 mA@12 V Data link: 500 mA (peak) @12 V WAN port supported Input voltage: 48~57V DC	
Receiving sensitivity (+/-1 dBm) Others	802.11n (40 MHz) 17 dBm 802.11b -93 dBm 802.11g -90 dBm 802.11n (20 MHz) -88 dBm 802.11n (40 MHz) -85 dBm	Physical Characterist Ingress protection Housing & Weight Dimensions Installations	ics IP30 Metal, 305 g 127.5 x 82.5 x 29.5 mm Desktop, wall mounting and 35 mm DIN rail mounting	
Reset button LED indicators Built-in	1 x RST 1 x RUN, 1 x PPP, 1 x USR, 3 x RSSI Watchdog, Timer	Regulatory and Type Regulatory Carrier		
Software (Basic features of Network protocols	of RobustOS) PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP, HTTPs, DNS, ARP, BGP, RIP, OSPF, NTP, SMTP, Telnet, VLAN, SSH2, DDNS, etc. IPsec, OpenVPN, GRE	Application Environmental EMI EMS	E-mark (Vehicle) RoHS2.0, WEEE EN 55032: 2012/AC: 2013 (CE & RE) Class A IEC 61000-4-2 (ESD) Contact Level 2; Air Level 3 IEC 61000-4-4 (EFT) Level 2 IEC 61000-4-5 (Surge) Level 3	

ORDERING INFORMATION

Model	R2000-3P	R2000-4L	R2000-4M	R2000-NU		
Router Type	HSPA+ Router	LTE Router	LTE-M Router			
Air Interface	GSM/GPRS/EDGE/HSDPA/H	GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA/	EGPRS/Cat.M1/Cat.NB1			
	SUPA/HSPA+	HSPA+/DC-HSPA+/				
		TD-SCDMA/CDMA (CDMA 1X/EVDO)/FDD				
		LTE/TDD LTE/				
Frequency Bands		AU: B1/B2 [®] /B3/B4/B5/B7/B8/B28	LTE			
		EMEA: B1/B3/B5/B7/B8/B20, B38/B39/B40	Cat.M1/Cat.NB1:B1/B2/B3/B4/B5			
	1	US: B2/B4/B12	/B8/B12/B13/B18/B19/B20/B26/			
	1	JP: B1/B3/B8/B18/B19/B26	B28/B39(for TDD)			
4G*		CN: B1/B3, B38/B39/B40/B41				
3G	B1/B2/B5/B8/B19	AU: B1/B2/B5/B8				
		EMEA: B1/B5/B8				
		US: B2/B4/B5				
		JP: B1/B6/B8/B19				
		CN: B34/B39, R0/A BC0/BC1/BC10				
2G	850/900/1800/1900 MHz	AU: 850/900/1800/1900MHz	EGPRS:850/900/1800/1900MHz			
		EMEA/CN: 900/1800 MHz				
Operating Temperature	-25 to +70 °C	-25 to +70 °C	-25 to +70 °C	-25 to +70 °C		
Storage Temperature	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C		
Relative Humidity	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH		
(1): ITE B2 of ALL does not support Ry-diversity *Ear more information about AG frequency bands in different countries please contact your Robustel cales representative						

①: LTE B2 of AU does not support Rx-diversity *For more information about 4G frequency bands in different countries, please contact your Robustel sales representative.



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