



Industrial Dual SIM Cellular VPN Router 2 Eth + 2 SIM



INTRODUCTION

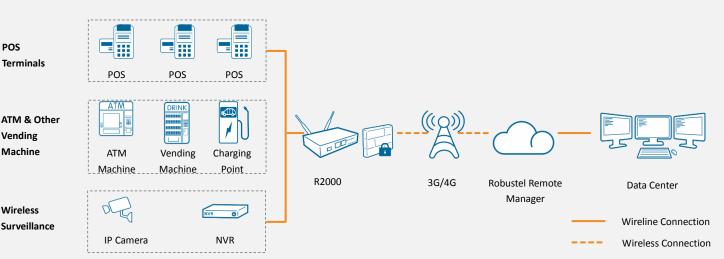
The Robustel Industrial Dual SIM Cellular VPN Router (R2000) is a rugged cellular router offering state-of-the-art mobile connectivity for machine to machine (M2M) applications.

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
- WAN IIIK backup and fewir 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/RCMS 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

Number of antennas2 (MAIN + AUX)ConnectorSMA-KSIM2 (3 V & 1.8 V)

Ethernet Interface Number of ports

WAN port Magnet isolation 2 x 10/100 Mbps, 2 x LAN or 1 x LAN + 1 x WAN Supporting 802.3 at PD feature (optional) 1.5 KV

WiFi Interface (Optional)

Number of antennas	2 (WiFi1 + WiFi2)			
Connector	RP-SMA-K			
Standards	802.11b/g/n, supporting AP and Client modes			
Frequency bands	2.4 GHz			
Security	WEP, WPA, WPA2			
Encryption	64/128 AES, TKIP			
Data speed	2*2 MIMO, 300 Mbps			
RF output power	802.11b	19 dBm		
(+/-1 dBm)	802.11g	19 dBm		
	802.11n (20 MHz)	18 dBm		
	802.11n (40 MHz)	17 dBm		
Receiving sensitivity	802.11b	-93 dBm		
(+/-1 dBm)	802.11g	-90 dBm		
	802.11n (20 MHz)	-88 dBm		
	802.11n (40 MHz)	-85 dBm		
Others				
Reset button	1 x RST			
LED indicators	1 x RUN, 1 x PPP, 1 x USR, 3 x RSSI			
Built-in	Watchdog, Timer			
Software (Basic features of RobustOS) Network protocols PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP,				
Network protocols	HTTPs, DNS, ARP, BGP, RIP, OSPF, NTP, SMTP,			

HTTPs, DNS, ARP, BGP, RIP, OSPF, NTP, SM1 Telnet, VLAN, SSH2, DDNS, etc. VPN tunnel IPsec, OpenVPN, GRE

		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		
N		App Center (Available Apps for RobustOS)			
		Apps*	L2TP, PPTP, DMVPN , VRRP, QoS, Captive Protal, WLAN Multi AP, SNMP, Language, RCMS		
		*Request on demand. For mo	ore Apps please visit www.robustel.com.		
		Power Supply and Consumption			
:		Connector Input voltage Power consumption PD feature* (optional)	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 Se DC power supply and PD power supply		
			mounting		
		Regulatory and Type A Regulatory Carrier Application Environmental EMI EMS	pprovals RCM, CE, CCC, EAC, FCC, Telec, CB, IC AT&T, PTCRB 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		
		2	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 SUPA/HSPA+	GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA/ HSPA+/DC-HSPA+/ TD-SCDMA/CDMA (CDMA 1X/EVDO)/FDD LTE/TDD LTE/	EGPRS/Cat.M1/Cat.NB1	-					
Frequency Bands 4G*		AU: B1/B2 [®] /B3/B4/B5/B7/B8/B28 EMEA: B1/B3/B5/B7/B8/B20, B38/B39/B40 US: B2/B4/B12 JP: B1/B3/B8/B18/B19/B26 CN: B1/B3, B38/B39/B40/B41	LTE Cat.M1/Cat.NB1:B1/B2/B3/B4/B5 /B8/B12/B13/B18/B19/B20/B26/ B28/B39(for TDD)	-					
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 EMEA/CN: 900/1800 MHz	EGPRS:850/900/1800/1900MHz						
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					
	t Dy diversity *For more informe	1: ITE B2 of AU doos not support By diversity *Ear more information about 46 frequency bands in different countries, plagas contact your Pobustel sales 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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