



Industrial Dual SIM Cellular VPN Router 2 Eth + 2 SIM



## INTRODUCTION

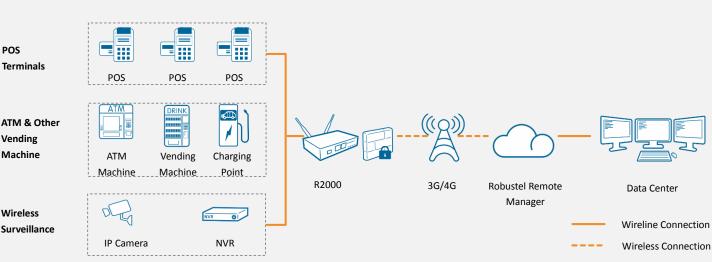
The Robustel Industrial Dual SIM Cellular VPN Router (R2000) is a rugged cellular router offering state-of-the-art mobile connectivity for machine to machine (M2M) applications.

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 supporting Cellular WAN, Ethernet WAN, WLAN WAN link backup and ICMP detection
- WAN IIIK backup and leivir detection
- WAN Static/PPPoE/DHCP Client
  WAN port supporting PD feature compatible with 802.3at. (optional)
- 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	2 (MAIN + AUX) SMA female 2 (3 V & 1.8 V)		Firewall Management Serial port	DMZ, anti-DoS, Filtering (IP/Domain name/ Web, CLI, SMS Transparent, TCP Client/Server, UDP,		
SIM			App Center (Available Apps for RobustOS)			
Ethernet Interface Number of ports	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		Apps*			
WAN port Magnet isolation			Power Supply and Consumption Connector 3-pin 3.5 mm female socket			
WiFi Interface (Optional Number of antennas	) 2 (WiFi1 + WiFi2)		Input voltage Power consumption	9 to 36V DC Idle: 100 mA@12 V		
Connector	RP-SMA male		PD feature* (optional)	WAN port supported		
Standards	802.11b/g/n, supportin	g AP and Client modes	*It is not recommended to use DC power supply and PD power supply			
Frequency bands	2.4 GHz					
Security	WEP, WPA, WPA2		Physical Characterist	Physical Characteristics		
Encryption	64/128 AES, TKIP		Ingress protection	IP30		
Data speed	2*2 MIMO, 300 Mbps		Housing & Weight	Metal, 305 g		
RF output power	802.11b	19 dBm	Dimensions	127.5 x 82.5 x 29.5 mm		
Receiving sensitivity	802.11b	-93 dBm	Installations	Desktop, wall mounting and 35 mm DIN rail		
Others			Regulatory and Type Approvals			
Reset button	1 x RST		Regulatory	RCM, CE, CCC, EAC,FCC,PTCRB		
LED indicators	1 x RUN, 1 x PPP, 1 x USR, 3 x RSSI		Carrier	AT&T		
Built-in	Watchdog, Timer		Application	E-mark (Vehicle)		
Software (Basic features of RobustOS)Network protocolsPPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP,VPN tunnelIPsec, OpenVPN, GRE		Environmental EMI EMS	RoHS, 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 SUPA/HSPA+	GSM/GPRS/EDGE/WCDMA/HSDP A/HSUPA/HSPA+/DC-HSPA+/ TD-SCDMA/CDMA (CDMA 1X/EVDO)/FDD LTE/TDD LTE/	EGPRS/Cat.M1/Cat.NB1	
Frequency Bands 4G*		AU: B1/B3/B5/B7/B8/B28, B40 EU: B1/B3/B7/B8/B20/B28/B31, B38/B40 US: B2/B4/B5/B13/B17/B25, B41 JP: B1/B3/B8/B9/B18/B19/B21/B28, B41 CN: B1/B3, B38/B39/B40/B41	LTE Cat.M1/Cat.NB1:B1/B2/B3/B4/B5/ B8/B12/B13/B18/B19/B20/B26/B2 8/B39(for TDD)	
3G	B1/B2/B5/B8/B19	WCDMA/HSDPA/HSUPA/HSPA+/ DC-HSPA+: B1/B2/B5/B6/B8/B9/B19 TD-SCDMA: B34/B39 CDMA (CDMA 1X/EVDO): R0/A BC0/BC1/BC10		-
2G	850/900/1800/1900 MHz	850/900/1800/1900 MHz	EGPRS:850/900/1800/1900MHz	
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.





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