

Robustel R2000 Ent Get Quote



R2000 Ent robust

Industrial Dual Module Cellular VPN Router with Voice 5 Eth + 1 Voice/RS-232/RS-485 + 1 USB Host

INTRODUCTION

The Robustel Industrial Dual Module Cellular VPN Router with Voice (R2000 Ent) provides fast and reliable Internet connectivity, enhanced voice capabilities – making it perfect to respond to and manage any device, anytime and anywhere.

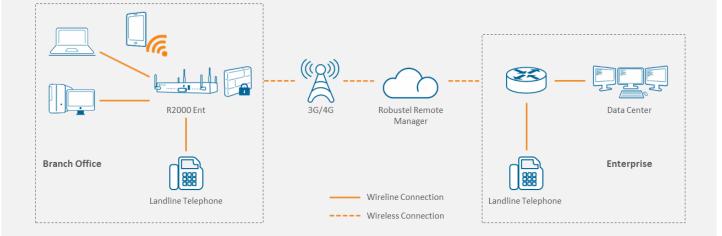
R2000 Ent is a powerful router developed from **RobustOS**, a Robustel self-developed and Linux-based operating system which is designed to be used in Robustel devices. The RobustOS includes basic networking features and protocols providing customers with a very good user experience. Meanwhile, Robustel 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

Voice call/RS-232/RS-485 (choose one only) shared across an RJ11 port

- Voice call and data transmission being used simultaneously, depending upon your ISP network
- Supports GSM and VoLTE(optional) for voice traffic
- Embedded dual-module supports two SIM cards online simultaneously
- The feature Link Manager supports configuration of Cellular WAN, Ethernet WAN, WiFi link backup and ICMP detection
- WAN port supports PD feature compatible with 802.3at.
- RobustOS + SDK + App
- > IPsec/OpenVPN/GRE/L2TP/PPTP/DMVPN
- Management and maintenance via Web/CLI/SMS SNMP/RobustLink Cloud
- Robust industrial design (9 to 36V DC, desktop or wall mounting or DIN rail mounting)



APPLICATION EXAMPLE



SPECIFICATIONS

Cellular Interface

Number of antennas Connector SIM Standards

Ethernet Interface

Number of ports WAN port Magnet isolation protection

WiFi Interface

Number of antennas Connector Standards Frequency bands Security Encryption Data speed RF output power (+/-1 dBm)

Receiving sensitivity (+/-1 dBm)

Voice Interface

Number of ports Connector

Standards

Subscriber line interface circuit (SLIC)

4 (MAIN1 + AUX1 + MAIN2 + AUX2) SMA female 2 (3 V & 1.8 V) GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA/ HSPA+/DC-HSPA+/TD-SCDMA/CDMA (CDMA 1X/EVDO)/FDD LTE/TDD LTE

4 x LAN + 1 x WAN (10/100 Mbps) Supports 802.3at PD feature (optional) 4 KV

2 (WiFi1 + WiFi2)	
RP-SMA male	
802.11b/g/n, support AP and Client	modes
2.4 GHz	
WEP, WPA, WPA2	
64/128 AES, TKIP	
2*2 MIMO, up to 300 Mbps	
802.11b 19 dBm, 802.11g 19 dB	m
802.11n (20 MHz) 18 dBm	
802.11n (40 MHz) 17 dBm	
802.11b -93 dBm, 802.11g -90 d	Bm
802.11n (20 MHz) -88 dBm	
802.11n (40 MHz) -85 dBm	

1 x Voice call (only SIM1 support)
RJ11 (also be used for landline telephone's
power supply)
ITU Q.512 (SLIC)
ITU K.20 (overcurrent and overvoltage
protection)
Ring voltage: 40 to 90 Vpk configurable
Ring frequency: 20 to 25 Hz
Ring waveform: sine wave
Maximum ringer load: 5 ringer equivalence
numbers (RENs)
On-hook voltage (tip/ring): -46 to -56V
Off-hook current: 18 to 20 mA
Terminating impedance: configurable

Serial Interface Serial port USB host	1 x RS-232/RS-485 with an RJ11 interface 1 x USB 2.0 port up to 480 Mbps
Others Reset button LED indicators	1 x RST 1 x RUN, 1 x NET1, 1 x NET2, 1 x RSSI1, 1 x RSSI2, 1 x USR 5 x LINK of Ethernet interface, including WAN, ETH1, ETH2, ETH3 and ETH4
Software (Basic features	of RobustOS)
Network protocols	PPP, PPPOE, TCP, UDP, DHCP, ICMP, NAT, HTTP,
VPN tunnel	IPsec, OpenVPN, GRE
Firewall	DMZ, anti-DoS, Filtering (IP/Domain name/MAC
Management	Web, CLI, SMS
Serial port	Transparent, TCP Client/Server, UDP,
App Center (Available A	pps for RobustOS)
Apps*	L2TP, PPTP, DMVPN, RobustVPN, VRRP, QoS,
*Request on demand. For r	nore Apps please visit www.robustel.com.
Power Supply and Co	nsumption
Connector	2.1 mm DC Jack socket
Power consumption	Idle: 350 mA@12 V
PD feature	WAN port support
Physical Characteristi	ics
Ingress protection	IP30
Housing & Weight	Metal, 695 g
Dimensions	193 x 113 x 32 mm
Installations	Desktop, wall mounting or 35 mm DIN rail
Approvals Regulatory Environmental	CE, RCM RoHS, WEEE

ORDERING INFORMATION

Model	R2000-E4L1	R2000-E4L2	
Module Number	Single module	Dual module	
Antenna Number	2	4	
Air Interface	GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA/HSPA+/DC-HSPA+/TD-SCDMA/CDMA (CDMA 1X/EVDO)/FDD LTE/TDD LTE		
Frequency Bands	AU: B1/B3/B5/B7/B8/B28, B40	JP: B1/B3/B8/B9/B18/B19/B21/B28, B41	
4G*	EU: B1/B3/B7/B8/B20/B28/B31, B38/B40	CN: B1/B3, B38/B39/B40/B41	
	US: B2/B4/B5/B13/B17/B25, B41		
3G	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		
Operating Environment	-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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Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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