PRODUCT DATASHEET





R2000 Ent robust

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

INTRODUTION

The Robustel Industrial Dual Module Cellular VPN Router with Voice (R2000 Ent) provides fast and reliable Internet connectivity, enhanced voice capabilities – making it perfect for the freedom 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 designed to be used in Robustel hardware routers. The RobustOS includes basic networking features and protocols providing users with a custom experience. Meanwhile, Robustel offers a **Software Development Kit** (SDK) to partners and customers to allow additional customization by using C or Python or Java, also provides rich **APPs** to satisfy fragmented IoT market.

Robustel is a leading global industrial IoT/M2M hardware and solution provider. Since its establishment in 2010 in Guangzhou, China, Robustel was focused on 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 branches and offices in Germany, Netherlands, Australia, Japan and Hong Kong.

KEY FEATURES

Voice call/RS-232/RS-485 (choose one only) shared across an RJ-11 port

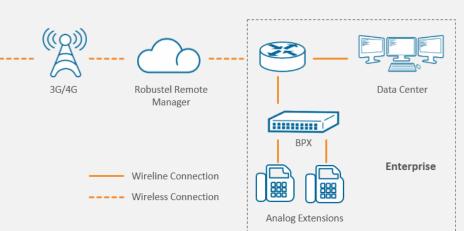
 Voice function allows to make telephone calls over the cellular network using a standard landline telephone

*Whether or not voice call and data transmission can be used simultaneously depends on your ISP network

- Embedded dual module supporting two SIM cards online simultaneously
- Supports Cellular WAN, Ethernet WAN, Wi-Fi link backup and ICMP detection
- WAN port supporting PD feature compatible with 802.3at.
- RobustOS + SDK + App
- > IPsec/OpenVPN/GRE/L2TP/PPTP/DMVPN Support
- Management and upgrading via Web/CLI/SNMP/ RobustLink Cloud
- Robust industrial design (9 to 36V DC, desktop or wall mounting or DIN rail mounting)

APPLICATION EXAMPLES





DISTRIBUTED BY TEXIM EUROPE

SPECIFICATIONS

Cellular Interface		Device Interface (Optional)	
Number of ports	4 (MAIN1 + AUX1 + MAIN2 + AUX2)	Serial port	1 x RS-232/RS-485 with an RJ-11 port
Connector	SMA, female	USB host	1 x 480 USB 2.0 port up to 480 Mbps
SIM	2 (3 V & 1.8 V)	Others	
Standards	GSM/GPRS/EDGE/UMTS/WCDMA/HSPA+/	Reset button	1 x RST
	DC-HSPA+/FDD LTE/TDD LTE	LED indicators	1 x RUN, 1 x NET1, 1 x NET2, 1 x RSSI1, 1 x RSSI2,
Ethernet Interface			1 x USR
Number of ports	4 x LAN + 1 x WAN (10/100 Mbps)		5 x LINK of Ethernet interface, including ETH1,
WAN port	Supports 802.3 at PD feature (optional)		ETH2, ETH3, ETH4 and WAN
Magnet isolation	4 KV	Software	Basic features of RobustOS
protection		Network protocols	PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, DMZ,
WLAN Interface			HTTP, HTTPs, DNS, ARP, SNTP, Telnet, VLAN,
Number of ports	2 (WiFi1 + WiFi2)		SSH2, etc.
Connector	RP-SMA, male	VPN tunnel	IPsec, OpenVPN, GRE
Standards	802.11 b/g/n, supporting AP and Client mode	Firewall	SPI, anti-DoS, Filter, Access Control
Frequency bands	2.412 - 2.484 GHz (2.4 GHz ISM band)	Management	Web, CLI, SMS
Security	WEP, WPA, WPA2	Serial port	Transparent, TCP server/client, UDP,
Encryption	64/128 AES, TKIP		Modbus RTU
Data speed	2*2 MIMO, up to 300 Mbps		Apps of RobustOS
Voice Interface		App center	L2TP, PPTP, DMVPN, RobustVPN, DDNS, VRRP,
	1 x Voice call		QoS, Captive Portal, WLAN Multi AP, SNMP, Language, RobustLink
Number of ports Connector	RJ-11	*Request on demand, for more APPs please visit www.robustel.com.	
	KJ-11 ITU Q.512 (SLIC)		
Standards	ITU K.20 (overcurrent and overvoltage	Power Supply and Consumption	
	protection)	Connector	3.5 mm terminal block
Subscriber line interface	Ring voltage: 40 to 90 Vpk configurable		Input voltage 9 to 36V DC
circuit (SLIC)	Ring frequency: 20 to 25 Hz	Power consumption	Idle: 350 mA@12 V
	Ring waveform: sine wave		Data link: 500 mA (peak) @12 V
	Maximum ringer load: 5 ringer equivalence	PD feature	WAN port support
	numbers (RENs) On-hook voltage (tip/ring): -46 to -56V Off-hook current: 18 to 20 mA Terminating impedance: configurable		Input voltage 48 to 57V DC
		Physical Characteris	tics
		Ingress protection	IP30
	icininating impedance. computable	Housing & Weight	Metal, 750 g
		Dimensions	193 x 113 x 32 mm

ORDERING INFORMATION

Model	R2000-E4L1	R2000-E4L2
Module Number	Single module (Mini PCIe)	Dual module (Mini PCIe)
Antenna Number	2	4
Air Interface	2G: GSM/GPRS/EDGE	2G: GSM/GPRS/EDGE
	3G: UMTS/DC-HSPA+/HSPA+/HSPA	3G: UMTS/DC-HSPA+/HSPA+/HSPA
	4G:FDD/TDD	4G: FDD/TDD
Frequency Bands	FDD LTE: B1/2/3/4/5/7/8/13/17/18/19/20/21/25/	FDD LTE: B1/2/3/4/5/7/8/13/17/18/19/20/21/25/
4G	28/31	28/31
	TDD LTE: B38/39/40/41	TDD LTE: B38/39/40/41
3G	850/900/1900/2100 MHz	850/900/1900/2100 MHz
2G	850/900/1800/1900 MHz	850/900/1800/1900 MHz
Operating Environment	-20 to 65°C/5 to 95% RH	-20 to 65°C/5 to 95% RH

Installations

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



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Desktop or wall mounting or DIN rail mounting



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