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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.

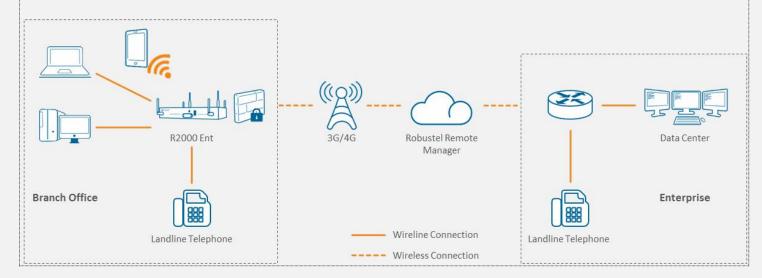
R2000 Ent is a powerful router developed from **RobustOS**, a Robustel self-developed and Linux-based operating system which is designed to be used in Robustel devices. The RobustOS includes basic networking features and protocols providing customers with a very good user experience. Meanwhile, Robustel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

4 (MAIN1 + AUX1 + MAIN2 + AUX2) SMA-K 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

Ethernet Interface

Number of ports WAN port Magnet isolation protection

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

WiFi Interface

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

2 (WiFi1 + WiFi2) RP-SMA-K 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 dBm 802.11n (20 MHz) 18 dBm 802.11n (40 MHz) 17 dBm 802.11b -93 dBm, 802.11g -90 dBm

Voice Interface

Receiving sensitivity

Number of ports Connector

Standards

(+/-1 dBm)

Subscriber line interface circuit (SLIC)

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 | 1 x RS-232/RS-485 with an RJ11 interface | |
| USB host | 1 x USB 2.0 port up to 480 Mbps | |
| Others | | |
| Reset button | 1 x RST | |
| LED indicators | 1 x RUN, 1 x NET1, 1 x NET2, 1 x RSSI1, 1 x RSSI | |
| | 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, | |
| | HTTPs, DNS, ARP, RIP, OSPF, NTP, SMTP, Telnet, | |
| VPN tunnel | VLAN, SSH2, etc. IPsec, OpenVPN, GRE | |
| Firewall | DMZ, anti-DoS, Filtering (IP/Domain name/MA | |
| Thewall | address), Port Mapping, Access Control | |
| Management | Web, CLI, SMS | |
| Serial port | Transparent, TCP Client/Server, UDP, | |
| | Modbus RTU Gateway | |
| App Center (Available A | pps for RobustOS) | |
| Apps* | L2TP, PPTP, DMVPN, RobustVPN, VRRP, QoS, | |
| | Captive Portal, WLAN Multi AP, SNMP, | |
| ** | Language, RobustLink | |
| *Request on demand. For n | nore Apps please visit www.robustel.com. | |
| Power Supply and Co | - | |
| Connector | 2.1 mm DC Jack socket | |
| Dowerconcumption | Input voltage 9 to 36V DC | |
| Power consumption | Idle: 350 mA@12 V Data link: 500 mA (peak) @12 V | |
| PD feature* (optional) | WAN port supported | |
| (| Input voltage 48~57V DC | |
| *It is not recommended to | use DC power supply and PD power supply | |
| 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 mounting | |
| | mounting | |
| Approvals | | |

CE

RoHS2.0, 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 | EMEA:B1/B3/B5/B7/B8/B20; B38/B40/B41 | | |
| 4G* | AU: B1/B2/B3/B4/B5/B7/B8/B28;B40 | | |
| | CN:B1/B3/B5/B8; B38/B39/B40/B41 | | |
| 3G | EMEA: B1/B5/B8 | | |
| | AU: B1/B2/B5/B8 | | |
| | CN: B1/B5/B8; B34/B39; BC0 | | |
| 2G | EMEA: B3/B8 | | |
| | AU: B2/B3/B5/B8 | | |
| | CN: B3/B8 | | |
| Operating Temperature | -25 to +70 °C | | |
| Storage Temperature | -40 to +85 °C | | |
| Relative humidity | 5 to 95% RH | | |

Regulatory Environmental



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