

R2000 robust

Industrial Dual SIM Cellular VPN Router

2 Eth + 2 SIM

INTRODUCTION

The Robustel R2000 Industrial Dual SIM Cellular Router is a rugged, versatile 4G router with dual Ethernet ports, dual SIM capability and a range of advanced functions for mission critical IoT or M2M applications. 802.11n Wi-Fi client and AP capabilities.

The R2000 runs on Robustel's own Linux based Operating System, **RobustOS**. Developed entirely in-house, this gives way to a very high standard of technical support and high reliability. Many unique software innovations are built on top of RobustOS, these include:

RobustVPN – highly flexible hosted VPN service so customers can easily enjoy a "fixed IP router"

Data Guard – invaluable failsafe in case of a system failure and runaway data usage **Smart Reboot** – SMS tool to push roaming SIMs from a non-working to working state

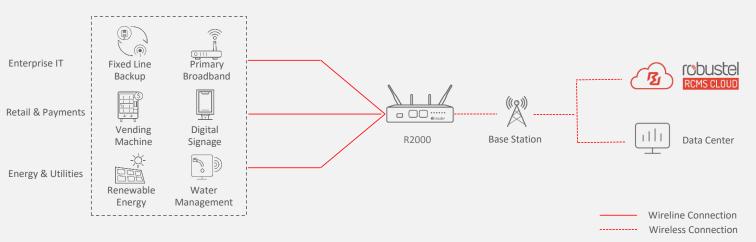
Smart Roaming - provides you with Device assisted intelligent network selection for roaming SIMs to improve performance and reduce risk.

RCMS is Robustel's free router cloud monitoring service that is fully compatible with the R2000. It allows customers to see a location overview of their routers quickly and simply on a map. Features such as data usage, signal strength, current network and much more can then be viewed on a per router basis. Over-the-air updates are supported for firmware, router configuration and Apps serving as essential 'insurance' if anything was not quite right during deployment.

You can try Robustel's free router management platform by signing up here: <u>https://rcms-cloud.robustel.net</u>



APPLICATION EXAMPLE



KEY FEATURES

Available in 4G Cat 4 high speed and Cat-M1 low speed networks

Brabush

- Industrial design (9 ~ 36 VDC, desktop or wall mounting or DIN rail mounting)
- Management and maintenance via Web/CLI/SMS/RCMS Cloud
- Supports IPv6
- WAN port supports 802.3at PoE-PD
- Wi-Fi/Ethernet/4G WAN interface options with failover
- IPsec/OpenVPN/GRE/L2TP/PPTP/DMV PN/Wireguard VPN capabilities
- RobustVPN hosted VPN service providing a "fixed IP" router

SPECIFICATIONS

Cellular Interface		App Center (Available Apps for RobustOS)			
Number of antennas Connector	2 (MAIN + AUX) SMA/K	Apps*	L2TP, PPTP, DMVPN, VRRP, QoS, Captive Portal, WLAN Multi AP, SNMP, Language, RCMS		
SIM	2 Mini SIM (2FF)	*Request on demand. For more Apps please visit www.robustel.com.			
Ethernet Interface		SDK			
Number of ports Magnet isolation protection	2 x 10/100 Mbps, 2 x LAN or 1 x LAN + 1 x WAN 1.5 KV	Supported programming language	C, C++		
Wi-Fi Interface (Optional)		Flash available for SDK	4 MB		
Number of antennas	2 (Wi-Fi1 + Wi-Fi2)	RAM available for SDK	16 MB		
Connector	RP/SMA/K	Power Supply and Co	Power Supply and Consumption		
Standards	802.11 b/g/n, supporting AP and Client modes	Connector	3-pin 3.5 mm female socket		
Frequency bands	2.4 GHz	Input voltage	9 ~ 36 VDC		
Security	WEP, WPA, WPA2	Power consumption	Idle: 100 mA@12 V		
Encryption	64/128 AES, TKIP		Data link: 500 mA (peak) @12 V		
Data speed	2 x 2 MIMO, 300 Mbps	Physical Characteristics			
Others		Ingress protection	IP30		
Reset button	1 x RST	Housing & Weight	Metal, 305 g		
LED indicators	1 x RUN, 1 x PPP, 1 x USR, 3 x RSSI	Dimensions	127.5 x 82.5 x 29.5 mm		
Built-in	Watchdog, Timer	Installations	Desktop, wall mounting and 35 mm DIN rail		
Software (Basic features of	RobustOS)		mounting		
Network protocols	PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP,	Operating temperature	-25 ~ +70 °C		
	HTTPs, DNS, ARP, BGP, RIP, OSPF, NTP, SMTP,	Storage temperature	-40 ~ +85 °C		
	Telnet, VLAN, SSH2, DDNS, etc.	Relative humidity	5 ~ 95% RH		
VPN tunnel	IPSec, OpenVPN, GRE	Regulatory and Type			
Firewall	DMZ, anti-DoS, Filtering (IP/Domain name/	Environmental	RoHS2.0, WEEE		
	MAC address), Port Mapping, Access Control	EMI	EN 55032: 2012/AC: 2013 (CE & RE) Class A		
Remote Management	Web, CLI, SMS	EMS	IEC 61000-4-2 (ESD) Contact Level 2; Air Level 3		
Serial port	Transparent, TCP Client/Server, UDP, Modbus RTU Gateway		IEC 61000-4-4 (EFT) Level 2		
			IEC 61000-4-5 (Surge) Level 3		

ORDERING INFORMATION

Model	PN	Category	Wi-Fi	Frequency Bands*	Country/ Region	Certifications (*In progress)
R2000-4M	B014744	Cat M1	-	4G : LTE FDD: B1/B2/B3/B4/B5/B8/B12/B13/B18/ B19/B20/B26/B28 LTE TDD: B39 (for Cat.M1 only) 2G : EGPRS: 850/900/1800/1900 MHz	EMEA, Oceania	CE, RCM
	B014748		~		EMEA, Oceania	CE, RCM
R2000-4L	B014725	• 	-	4G: LTE FDD: B1/B3/B5/B7/B8/B20	EMEA	CE, E-13
	B014726		~	LTE TDD: B38/B40/B41 3G: WCDMA: B1/B5/B8 2G: GSM: B3/B8		
	B014737		-	 4G: LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28 LTE TDD: B40 3G: WCDMA: B1/B2/B5/B8 2G: GSM: B2/B3/B5/B8 	Oceania, South America	RCM, ANATEL, CRC, SUBTEL, ENACOM, URSEC, ARCOTEL
	B014740		✓			
	B014747		~	4G : LTE FDD: B2/B4/B12 3G : WCDMA: B2/B4/B5	North America EMEA	FCC, PTCRB, AT&T, IC, TELUS CE, E-13, TRA, ICASA
	B014751		\checkmark	4G: LTE FDD: B1/B3/B7/B8/B20/B28A 3G: WCDMA: B1/B8 2G: GSM: B3/B8		
	B014756		-		North America	FCC, PTCRB, AT&T, IC, TELUS
	B014754		-	4G: LTE FDD: B1/B3/B8/B18/B19/B26 LTE TDD: B41 3G: WCDMA: B1/B6/B19	Japan	Telec, JATE
	B014755		~			

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







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