

R2011 robust

Industrial Cellular Router 5 Eth + 2 SIM

INTRODUCTION

The Robustel R2011 Industrial Cellular Router is a rugged, versatile 4G router with 5 Ethernet ports, dual SIM single standby capability and a range of advanced functions for mission critical IoT or M2M applications.

The R2011 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. Robustel offers a **Software Development Kit** (SDK) to allow additional customization by using C, C++. It also provides rich **Apps** to meet fragmented IoT market demands such as:

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 monitoring service that is fully compatible with the R2011. It allows customer 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.

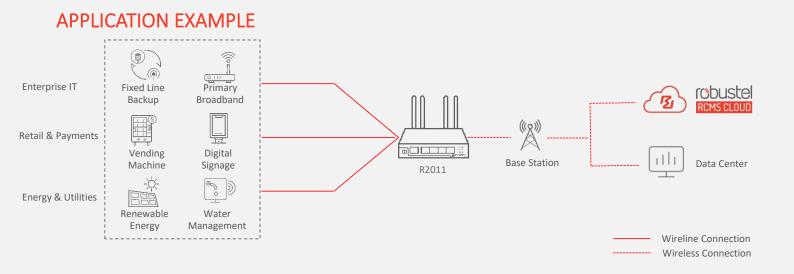
You can try Robustel's free router management platform by signing up here: <u>https://rcms-cloud.robustel.net</u>





KEY FEATURES

- Dual-SIM redundancy for continuous cellular network connections
- Link Manager supports Cellular WAN, Ethernet WAN, WLAN WAN link backup and ICMP detection
- WAN Static/DHCP Client
- RobustOS + SDK + Apps
- IPSec/OpenVPN/GRE/Wireguard VPN capabilities
- Management and maintenance via Web/RCMS Cloud
- Auto reboot via SMS/time schedule
- Robust industrial design (9 ~ 36 V DC, desktop or wall mounting or DIN rail mounting)



SPECIFICATIONS

Cellular Interface		SDK			
Number of antennas	2 (MAIN + AUX) or 1 (MAIN)	Supported programming	C, C++		
Connector	SMA-K	language			
SIM	2 x Mini SIM (2FF)	Flash available for SDK	16 MB		
Ethernet Interface		RAM available for SDK	64 MB		
Number of ports	5 x 10/100 Mbps, 5 x LAN or 4 x LAN + 1 x WAN	App Center (Available Apps for RobustOS)			
WAN port	Supports 802.3at PD feature (optional)	Apps*	L2TP, PPTP, DMVPN , VRRP, QoS, Captive Portal,		
Magnet isolation protection	1.5 KV		WLAN Multi AP, SNMP, Language, RCMS		
Wi-Fi Interface		*Request on demand. For m	nore Apps please visit www.robustel.com.		
Number of antennas	2 (Wi-Fi1 + Wi-Fi2)	Power Supply and Consumption			
Connector	RP-SMA-K	Connector	2-pin 3.5 mm female		
Standards	802.11 b/g/n, supporting AP and Client modes	Input voltage	9 ~ 36 V DC		
Frequency bands	2.4 GHz	Power consumption	Idle: 200 mA@12 V		
Security	WEP, WPA, WPA2		Data link: 580mA (peak)@12 V		
Encryption	64/128 AES, TKIP	Physical Characteristics			
Data speed	2 x 2 MIMO, 300 Mbps	Ingress protection	IP30		
Others		Housing & Weight	Metal, 350g		
Reset button	1 x RST	Dimensions	127 x 82 x 30 mm		
LED indicators	1 x RUN, 1 x MDM, 1 x Wi-Fi, 3 x RSSI	Installations	Desktop, wall mounting and 35 mm DIN rail		
Built-in	Watchdog, Timer		mounting		
Software (Basic features of RobustOS)		Operating temperature	-35 ~ +75°C		
Network protocols	PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP,	Storage temperature	-40 ~ +85°C		
	HTTPs, DNS, ARP, BGP, RIP, OSPF, NTP, SMTP,	Relative humidity	5% ~ 95%		
	Telnet, VLAN, SSH2, DDNS, etc	Regulatory and Type Approvals			
VPN tunnel	IPsec, OpenVPN, GRE, WireGuard	Environmental	ROHS 2.0		
Firewall	DMZ, anti-DoS, Filtering (IP/Domain name/	EMI	EN 55032 Conducted Emission class B		
	MAC address), Port Mapping, Access Control		EN 55032 Radiated Emission class B		
Remote management	Web, CLI, SMS	EMS	IEC 61000-4-2 (ESD) Level 4		
			IEC 61000-4-3 (RS) Level 2		
			IEC 61000-4-4 (EFT) Level 2		

ORDERING INFORMATION

Model	PN	LTE Category	Frequency Bands*	Country/Region	Certification (*In progress)
R2011-A-4L-A23CN	B070710	Cat 4	4G : LTE FDD: B1/B3/B5/B8 LTE TDD: B34/B38/B39/B40/B41 3G : WCDMA: B1/B5/B8 2G : GSM: B3/B8	China, India	CCC*
R2011-A-4L-A12EU	B070712	Cat 4	4G : LTE FDD: B1/B3/B7/B8/B20/B28A LTE TDD: B38/B40/B41 3G : WCDMA: B1/B8 2G : GSM: B3/B8	EMEA	CE
R2011-A-4L-A03AU	B070702	Cat 4	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	South America, Oceania	RCM

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



IEC 61000-4-5 (Surge) Level 2 IEC 61000-4-6 (CS) Level 2 IEC 61000-4-11 (DIP)