R2011

Industrial Cellular Router

5 x Ethernet + 2 x SIM + Wi-Fi



INTRODUCTION

The Robustel R2011 Industrial Cellular Router is a rugged and versatile 4G router featuring five Ethernet ports and dual SIM single standby capability, making it ideal for mission-critical IoT and M2M applications.

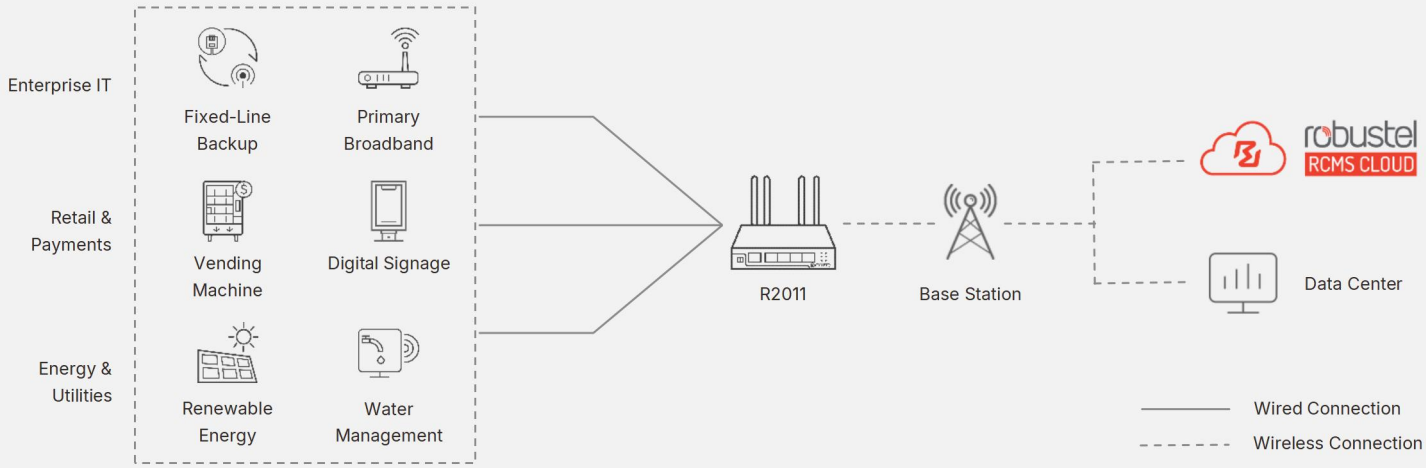
The R2011 operates on Robustel's proprietary Linux-based operating system, RobustOS. Developed entirely in-house, RobustOS ensures high reliability and exceptional technical support. Robustel provides a Software Development Kit (SDK) that allows for further customization using C and C++. Additionally, it offers a variety of applications to meet the diverse demands of the fragmented IoT market, including RobustVPN, a highly flexible hosted VPN service that enables customers to seamlessly utilize a "fixed IP router".

The **Robustel Cloud Manager Service (RCMS)** is a unified cloud-based platform designed for real-time monitoring and centralized management of industrial IoT devices. Fully compatible with Robustel routers and gateways, RCMS delivers an interactive geospatial dashboard that enables users to visualize device locations and track critical metrics such as data usage, signal strength, and network status. To ensure seamless operations, the platform facilitates over-the-air (OTA) updates for firmware, configurations, and applications, minimizing downtime while optimizing system performance. For more information or to get started with RCMS, visit: https://rcms-cloud.robustel.net

KEY FEATURES

- Dual-SIM redundancy ensures continuous cellular network connectivity
- Link Manager supports backup for Cellular WAN, Ethernet WAN, and WLAN WAN, along with ICMP detection
- WAN configuration options include Static and DHCP Client
- Features RobustOS, an SDK, and a variety of applications
- Supports VPN capabilities including IPsec, OpenVPN, GRE, and WireGuard
- Management and maintenance via Web/RCMS
- Auto-reboot functionality is available through SMS or on a time schedule
- Robust industrial design supports 9 to 36 VDC, with options for desktop, wall, or DIN rail mounting

APPLICATION EXAMPLE



SPECIFICATIONS

Hardware

Hardware System	
CPU	MIPS, 650 MHz
RAM	128 MB
Flash	32 MB
Cellular Interface	
Number of antennas	2 (MAIN + AUX)
Connector	SMA-K
SIM	2 x Mini SIM (2FF)
Ethernet Port	
Number of ports	5 x 10/100 Mbps, 5 x LAN or 4 x LAN + 1 x WAN
WAN port	Supports 802.3at PD feature (optional)
Magnet isolation protection	1.5 kV
Wi-Fi Interface	
Number of antennas	2 (Wi-Fi 1 + Wi-Fi 2)
Connector	RP-SMA-K
Standards	802.11 b/g/n; supports AP and client modes
Frequency bands	2.412–2.472 GHz (2.4 GHz ISM band)
Security	WEP, WPA, WPA2, WPA3
Encryption	AES, TKIP
Others	
Reset button	1 x RST
LED indicators	3 x RSSI, 1 x RUN, 1 x MDM, and 1 x Wi-Fi
Watchdog	Built-in
Power Supply and Consumption	
Connector	2-pin 3.5 mm female socket
Input voltage	12/24 VDC, 9–36 VDC 40–57 VDC (PoE-PD) Reverse polarity protection, surge protection
Power consumption	Idle: 1.0 W@12 V Max: 8.0 W@12 V
Rec. power supply	12 VDC/1.5 A power adapter
Physical Characteristics	
Ingress protection	IP30
Housing & Weight	Metal, 350 g
Dimensions	30 x 82 x 127 mm
Installation	Desktop, wall mounting & 35 mm DIN rail mounting
Operating temperature	-35 to +75 °C
Storage temperature	-40 to +85 °C
Relative humidity	5–95% RH (non-condensing)
Regulatory and Type Approvals	
Environmental	RoHS 2.0
EMI	EN 55032 Conducted Emission Class B EN 55032 Radiated Emission Class B
EMS	EN 61000-4-2 (ESD) Level 4 EN 61000-4-3 (RS) Level 2 EN 61000-4-4 (EFT) Level 2 EN 61000-4-5 (Surge) Level 3, AC Mains Power Port Level 2, Signal Ports EN 61000-4-6 (CS) Level 2 EN 61000-4-11 (Dips)

Software

Operating System (Basic Features of RobustOS)	
Network protocols	PPP, PPPoE, ARP, VLAN, ICMP, NAT, TCP, UDP, DHCP, DNS, DDNS, NTP, HTTP, HTTPS, Telnet, SSH2, SMTP, etc.
VPN tunnels	IPsec, OpenVPN, GRE, WireGuard
Firewalls	DMZ, anti-DoS, Filtering (IP/Domain name/MAC address), Port Mapping, Access Control
Remote management	Web, CLI, SMS, RCMS
Others	Smart Roaming V3, etc.
SDK	
Programming languages	C, C++
Available Flash for SDK	16 MB
Available RAM for SDK	64 MB
App Center (Available Apps for RobustOS)	
Apps*	L2TP, PPTP, DMVPN, VRRP, QoS, SNMP, Language, RCMS, Dynamic Routing, Captive Portal, Modbus Master, TR069*, Edge2Cloud

*Available upon request. For more apps, please visit www.robustel.com.

Cloud Platform	
Robustel Cloud Manager Service (RCMS)	RobustLink, RobustVPN, Operation Console

ORDERING INFORMATION

Model	Order Code	PoE-PD	Frequency Bands	Region	Certifications	Package Contents
R2011-A-4L-A12EU	A007000704	-	LTE CAT4 4G: LTE FDD: B1/3/5/7/8/20/28A LTE TDD: B38/40/41 3G: WCDMA: B1/8 2G: GSM: B3/8	EMEA and SEA	CE, UKCA, TDRA	1 x Gateway (B Code: B070712)
	A007000705	-		EMEA and SEA		1 x Gateway (B Code: B070712) 2 x Cellular Antenna 2 x Wi-Fi Antenna 1 x Power Adapter 1 x DIN Rail Mounting Kit
R2011-A-4L-A24EU	A007000706	-	LTE CAT4 4G: LTE FDD: B1/3/5/7/8/20/28 LTE TDD: B38/40/41 3G: WCDMA: B1/5/8 2G: GSM: B3/8	EMEA and SEA	CE	1 x Gateway (B Code: B070714)
	A007000707	-		EMEA and SEA		1 x Gateway (B Code: B070714) 2 x Cellular Antenna 2 x Wi-Fi Antenna 1 x Power Adapter 1 x DIN Rail Mounting Kit
R2011-B-4L-A12EU	A007000708	√	LTE CAT4 4G: LTE FDD: B1/3/7/8/20/28A LTE TDD: B38/40/41 3G: WCDMA: B1/8 2G: GSM: B3/8	EMEA and SEA	CE, UKCA	1 x Gateway (B Code: B070713)
	A007000709	√		EMEA and SEA		1 x Gateway (B Code: B070713) 2 x Cellular Antenna 2 x Wi-Fi Antenna 1 x Power Adapter 1 x DIN Rail Mounting Kit
R2011-A-4L-A03AU	A007000710	-	LTE CAT4 4G: LTE FDD: B1/2/3/4/5/7/8/28 LTE TDD: B40 3G: WCDMA: B1/2/5/8 2G: GSM: B2/3/5/8	ANZ and LATAM	RCM, ANATEL*	1 x Gateway (B Code: B070702)
	A007000711	-		ANZ and LATAM		1 x Gateway (B Code: B070702) 2 x Cellular Antenna 2 x Wi-Fi Antenna 1 x Power Adapter 1 x DIN Rail Mounting Kit
R2011-B-4L-A03AU	A007000712	√	LTE CAT4 4G: LTE FDD: B1/2/3/4/5/7/8/28 LTE TDD: B40 3G: WCDMA: B1/2/5/8 2G: GSM: B2/3/5/8	ANZ and LATAM	RCM, ANATEL	1 x Gateway (B Code: B070706)
	A007000713	√		ANZ and LATAM		1 x Gateway (B Code: B070706) 2 x Cellular Antenna 2 x Wi-Fi Antenna 1 x Power Adapter 1 x DIN Rail Mounting Kit
R2011-A-4L-C01EU	A007000714	-	LTE CAT4 4G: LTE FDD: B3/7/20/31/72	EMEA and SEA	-	1 x Gateway (B Code: B070709)

NOTE:

1. Due to short supply of PoE-PD models, please confirm the lead time with your sales manager.
2. For more information about regional and carrier-specific variants, please contact us.
3. * Denotes certification in progress.

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Subject to change without notice.