

PRODUCT DATASHEET



High Speed Smart LTE/LTE-A Router 4 Eth + 1 RS232 + 1 RS485 + Bluetooth



INTRODUCTION

The Robustel High Speed Smart LTE/LTE-A Router (R2110) is a rugged cellular router offering state-of-the-art mobile connectivity for internet of things applications.

R2110 is a powerful platform developed based on **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 excellent user experience. Meanwhile, RobustOS offers **Software Development Kit** (SDK) allows partners and customers to develop IoT applications by using C, C++. It also provides various **Apps** to meet fragmented IoT market demands.

RCMS is Robustel's free router monitoring service that is fully compatible with the R2110. 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.

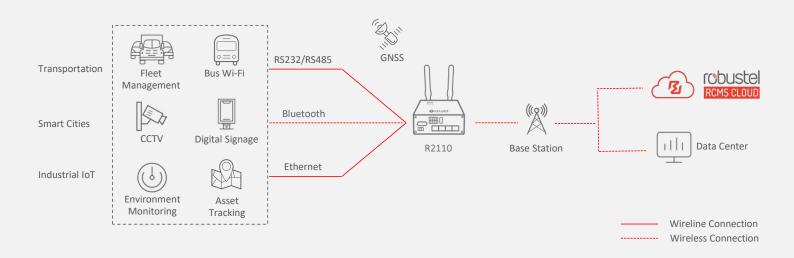
You can try Robustel's free router management platform by signing up here: https://rcms-cloud.robustel.net



KEY FEATURES

- Supports WWAN, WAN, WLAN link backup and ICMP detection
- Supports cold backup, warm backup and load balancing
- RobustOS + SDK + App
- IPSec/OpenVPN/GRE
- Ignition sensing (optional)
- Management and maintenance via Web/CLI/SNMP/RCMS
- Robust industrial design (desktop or wall mounting or DIN rail mounting)





SPECIFICATIONS

Cellular Interface		Othors				
Number of antennas		Others Reset button	1 x RST			
Connector	2 (MAIN + AUX) SMA-K	SD				
		Expansion	1 x Micro SD 1 x USB2.0 Host, 5V/500mA			
SIM	2 Mini SIM (2FF)	LED indicators	1 x RUN, 1 x Modem, 1 x USR, 1 x RSSI, 1 x NET,			
Ethernet Interface			1 x Wi-Fi			
LAN port	3 x LAN (10/100/1000 Mbps)	Built-in	Watchdog			
WAN port	Support 802.3at PD feature on ETH0	Software (Basic features of RobustOS)				
	1 x WAN (10/100/1000 Mbps)	Network protocols	PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP,			
Magnet isolation	1 KV	·	HTTPs, DNS, ARP, NTP, SMTP, Telnet, SSH2,			
protection Wi-Fi Interface			DDNS, etc.			
Number of antennas	2	VPN tunnel	IPSec, OpenVPN, GRE			
Connector	z RP-SMA-K	Firewall	DMZ, anti-DoS, Filtering (IP/Domain name/			
			MAC address), Port Mapping, Access Control			
Standards	802.11 a/b/g/n/ac, 2 x 2 MIMO, support AP and client modes	Remote management	Web, CLI, SMS			
Fraguency bands		Serial port	Transparent, TCP Client/Server, UDP,			
Frequency bands	2.412 ~ 2.472 GHz (2.4 GHz ISM band)		Modbus RTU to TCP			
	5.15 ~ 5.825 GHz (5 GHz ISM band)	App Center (Available a				
Security	Open, WPA, WPA2, WEP	Apps*	L2TP, PPTP, DMVPN, VRRP, QoS, SNMP,			
Encryption	AES, TKIP, WEP64		Language, RCMS, Bluetooth, Dynamic Route			
Data speed	5G: Up to 867 Mbps		Data Guard			
	2.4G: Up to 300 Mbps		nore Apps please visit www.robustel.com.			
Bluetooth Interface (O	ptional)	SDK				
Number of antennas	1	Supported programming	C, C++			
Connector	RP-SMA-K	language	5.440			
		Flash available for SDK	5 MB 256 MB			
Standards	BLE 5.0, Compatible with BLE 4.2/BLE 4.0	RAM available for SDK Power Supply and Co				
GNSS (Optional)						
Number of antennas	1	Connector	3-pin 3.5 mm female socket with lock 9 ~ 36 VDC (POE-PD)			
GNSS technology	GPS/QZSS/GOLNASS/Galileo/BeiDou	Input voltage	10 ~ 30 VDC (ACC)			
Connector	SMA-K with 50 ohms impedance	Power consumption	Idle: 500 mA@12 V			
Tracking sensitivity	GNSS: greater than -148 dBm	Power consumption	Data link: 1.3 A (peak) @12 V			
Horizontal position	GNSS: 2.5 m	Dhusiaal Chave stavisti	. , -			
accuracy	GNS5: 2.5 III	Physical Characteristi				
Serial Interface		Ingress protection	IP30			
Number of ports	1 x RS232 + 1 x RS485	Housing & Weight	Aluminum, 500 g			
Connector	2 x 3-pin 3.5 mm female socket	Dimension Installations	125 x 100 x 48 mm			
ESD protection	±15 KV	Installations	Desktop, wall mounting and DIN rail			
Baud rate	300 bps ~ 115200 bps	Operating temperature	mounting Normal operation: -20 ~ +55 °C			
DI/DO		Operating temperature	Extended operation: -25 ~ +70 °C			
-	1 v DL + 1 v DQ wet contact	Storage temperature	-40 ~ +85 °C			
Туре	1x DI + 1 x DO, wet contact	Relative humidity	-40 +85 C 5 ~ 95% RH			
Connector	2 x 2-pin 3.5 mm female socket	Regulatory and Type				
Isolation	3.75 KVDC	Environmental RoHS2.0, WEEE				
Absolute maximum VDC	"V+" +30 VDC (DI), +30 VDC (DO)	Livitorinicitui				

ORDERING INFORMATION

Absolute maximum ADC 100 mA

Model	PN	Category	BLE	GNSS	ACC	POE	Frequency Bands	Country /Region	Certifications (*In progress)
R2110-4L	B044702	- Cat 4 ✓	-	-	-	~	 4G: LTE FDD: B1/B3/B5/B7/B8/B18/B19/B21/B28 LTE TDD: B38/B39/B40/B41 3G: UMTS/HSPA+: B1/B5/B6/B8/B9/B19 TD SCDMA: B39 	Oceania	Telstra, RCM
	B044714		\checkmark	\checkmark	-	\checkmark			
	B044715	Cat 6	-	-	-	\checkmark	4G: LTE FDD: B1/B3/B5/B7/B8/B18/ B19/B20/B26/B28/B28A LTE TDD: B38/B39/B40/B41 3G: TD SCDMA: B34/B39 UMTS/HSPA+: 850/900/1800/2100 MHz 2G: GSM/GPRS/EDGE: 900/1800 MHz	EMEA	CE, E-13
	B044719		~	-	-	~			
	B044720		~	~	✓	-			
	B044730	Cat 4	-	-	-	\checkmark	4G: LTE FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/ B18/B19/B20/B25/B26/B28 LTE TDD: B38/B39/B40/B41 3G: WCDMA: B1/B2/B4/B5/B6/B8/B19 2G: GSM: B2/B3/B5/B8	Oceania EMEA	E-13, CE, RCM ICASA
	B044733		~	-	-	✓			
	B044734		\checkmark	\checkmark	~	-			
	B044735	Cat 4	✓	✓	-	\checkmark	4G: LTE FDD: B1/B3/B8/B18/B19/B26 LTE TDD: B41 3G: WCDMA: B1/B6/B8/B19	Japan	Telec, JATE
	B044736		✓		\checkmark	-			
	B044737		-	-	-	✓			
	B044738		✓	-	-	✓			

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

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