

10 robustel

R2110 robustos

High Speed Smart LTE / LTE-A Router 4 Eth + 1 RS-232 + 1 RS-485 + Bluetooth

INTRODUCTION

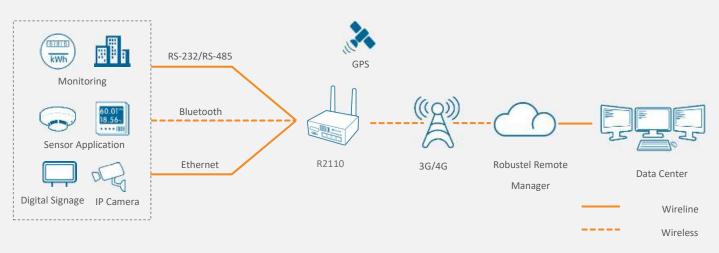
The Robustel High Speed Smart LTE /LTE-A Router (R2110) is a rugged cellular router offering state-of-the-art mobile connectivity for internet of things applications.

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, Python or Java. It also provides various **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, 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

- 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)



APPLICATION EXAMPLE

SPECIFICATIONS

Collular Interface

Cellular Interface Number of antennas Connector SIM	2 (MAIN + AUX) SMA-K 2 (3 V & 1.8 V) Standard SIM; UICC SIM (Optional)	DI/DO Type Connector Isolation Absolute maximum VDC Absolute maximum ADC	1x DI + 1 x DO, wet contact 2 x 2-pin 3.5 mm female socket 3.75KV DC "V+" +30V DC (DI), +30V DC (DO) 100 mA
Ethernet Interface LAN port WAN port Magnet isolation protection	3 x LAN (10/100/1000 Mbps) Support 802.3at PD feature (optional) on ETH0 1 x WAN (10/100/1000 Mbps) 1 KV	Others Reset button SD Expansion LED indicators Built-in	1 x Tact Switch 1 x Micro SD interface 1 x USB2.0 Host; 5V/500mA 1 x RUN, 1 x Modem, 1 x USR, 1 x RSSI, 1 x NET, 1 x WIFI Watchdog
WiFi Interface Number of antennas Connector Standards Frequency bands Security Encryption	2 RP-SMA-K 802.11a/b/g/n/ac 2*2 MIMO, supports AP and Client modes 2.412 - 2.472 GHz (2.4 GHz ISM band) 5.15 - 5.825 GHz (5 GHz ISM band) Open, WPA, WPA2, WEP AES, TKIP, WEP64	Software (Basic features Network protocols VPN tunnel Firewall Management Serial port	of RobustOS) PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP, HTTPs, DNS, ARP, NTP, SMTP, Telnet, SSH2, DDNS, etc. IPsec, OpenVPN, GRE DMZ, anti-DoS, Filtering (IP/Domain name/ MAC address), Port Mapping, Access Control Web, CLI, SMS Transparent, TCP Client/Server, UDP, Modbus RTU to TCP
Data speed Bluetooth Interface (O Number of antennas	5G: Up to 867Mbps 2.4G: Up to 300Mbps potional) 1	App Center (Available A Apps*	L2TP, PPTP, DMVPN, RobustVPN, VRRP, QoS SNMP, Language, RobustLink, Bluetooth, Dynamic route,
Connector Standards GPS(Optional) Number of antennas GNSS technology	RP-SMA-K BLE 5.0 Compatible with BLE 4.2, BLE 4.0	*Request on demand. For a Power Supply and Co Connector Input voltage Power consumption	more Apps please visit www.robustel.com. nsumption 3-pin 3.5 mm female socket with lock 9 to 36V DC (without Ignition sensing) ; 10 to 30V DC (with Ignition sensing) Idle: 500 mA@12 V Data link: 1.3 A (peak) @12 V
Connector Tracking sensitivity Horizontal position accuracy Serial Interface	SMA-K with 50 ohms impedance GPS: greater than -148 dBm GPS: 2.5 m	Physical Characteristi Ingress protection Housing & Weight Dimension Installations	
Number of ports Connector ESD protection Baud rate	1 x RS-232 + 1 x RS-485 2 x 3-pin 3.5 mm female socket ±15 KV 300bps to 115200bps	Approvals Environmental: Regulatory	RoHS, WEEE CE [*] , FCC [*] , RCM [*] , Telec [*] , E-Mark [*] ([*] : In progress)

ORDERING INFORMATION

Model	R2110-4L	
Router Type	LTE Router	LTE-A Router
Air Interface	LTE/WCDMA/HSDPA/HSUPA/HSPA+/DC-HSPA+/TD-SCDMA / CDMA (CDMA 1X/EVDO)	LTE-A /LTE /WCDMA/HSDPA/HSUPA/HSPA+/DC-HSPA+ /TD-SCDMA
Frequency Bands	AU: B1/B3/B5/B7/B8/B28, B40	APAC: B1/B3/B5/B7/B8/B18/B19/B21/B28/B38-B41
4G*	EU: B1/B3/B7/B8/B20/B28/B31, B38/B40 US: B2/B4/B5/B13/B17/B25, B41 JP: B1/B3/B8/B9/B18/B19/B21/B28, B41 CN: B1/B3, B38/B39/B40/B41	NA/EMEA: B1-B5/B7/B8/B12/B13/B20/B25/B26/B29/B30/B41
3G	WCDMA/HSDPA/HSUPA/HSPA+/DC-HSPA+: B1/B2/B5/B6/B8/B9/B19	WCDMA/HSDPA/HSUPA/HSPA+/DC-HSPA+: B1-B6/B8/B9/B19
	TD-SCDMA: B34/B39 CDMA (CDMA 1X/EVDO): R0/A BC0/BC1/BC10	TD-SCDMA: B34/B39
2G	850/900/1800/1900 MHz	850/900/1800/1900 MHz
Operating Temperature	Normal operation: -20 to +55 °C Extended operation: -25 to +70 °C	Normal operation: -20 to +55 °C Extended operation: -25 to +70 °C
Storage Temperature	-40 to +85 °C	-40 to +85 °C
Relative Humidity	5 to 95% RH	5 to 95% RH

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

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