

# Robustel R2110 Get Quote



# R2110 robust

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.

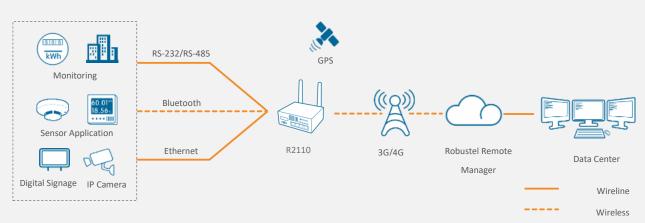
R2110 is a powerful platform developed based on **RobustOS**, a Robustel self-developed and Linux-based operating system which is designed to be used in Robustel devices. The RobustOS includes basic networking features and protocols providing customers with excellent user experience. Meanwhile, RobustOS 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**

#### **Cellular Interface**

Number of antennas Connector SIM

#### **Ethernet Interface**

LAN port WAN port

Connector

Standards

Security

Encryption

Data speed

Magnet isolation protection

#### WiFi Interface

Number of antennas

2 (3 V & 1.8 V) Standard SIM; UICC SIM (Optional)

2 (MAIN + AUX)

SMA-K

3 x LAN (10/100/1000 Mbps) Support 802.3at PD feature (optional) on ETH0 1 x WAN (10/100/1000 Mbps) 1 KV

2 **RP-SMA-K** 802.11a/b/g/n/ac 2\*2 MIMO, supports AP and Client modes Frequency bands 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 5G: Up to 867Mbps 2.4G: Up to 300Mbps

#### Bluetooth Interface (Optional)

Number of antennas 1 Connector **RP-SMA-K** Standards BLE 5.0 Compatible with BLE 4.2, BLE 4.0

#### GPS(Optional)

Number of antennas 1 GNSS technology GPS SMA-K with 50 ohms impedance Connector Tracking sensitivity GPS: greater than -148 dBm Horizontal position GPS: 2.5 m accuracy

#### Serial Interface

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

Туре 1x DI + 1 x DO, wet contact Connector 2 x 2-pin 3.5 mm female socket Isolation 3.75KV DC "V+" +30V DC (DI), +30V DC (DO) Absolute maximum VDC Absolute maximum ADC 100 mA Others Reset button 1 x Tact Switch SD 1 x Micro SD interface Expansion 1 x USB2.0 Host; 5V/500mA LED indicators 1 x RUN, 1 x Modem, 1 x USR, 1 x RSSI, 1 x NET, 1 x WIFI Built-in Watchdog Software (Basic features of RobustOS) PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP, Network protocols HTTPs, DNS, ARP, NTP, SMTP, Telnet, SSH2, DDNS, etc. VPN tunnel IPsec, OpenVPN, GRE Firewall DMZ, anti-DoS, Filtering (IP/Domain name/ MAC address), Port Mapping, Access Control Web, CLI, SMS Management Transparent, TCP Client/Server, UDP, Serial port Modbus RTU to TCP App Center (Available Apps for RobustOS) L2TP, PPTP, DMVPN, RobustVPN, VRRP, QoS Apps\* SNMP, Language, RobustLink, Bluetooth, Dynamic route, \*Request on demand. For more Apps please visit www.robustel.com. **Power Supply and Consumption** Connector 3-pin 3.5 mm female socket with lock 9 to 36V DC (without Ignition sensing) ; Input voltage 10 to 30V DC (with Ignition sensing) Power consumption Idle: 500 mA@12 V Data link: 1.3 A (peak) @12 V **Physical Characteristics** Ingress protection IP30 Housing & Weight Aluminum, 500 g Dimension 125 x 100 x 48 mm (device only) Installations Desktop, wall mount, DIN-Rail

Approvals Environmental: Regulatory

DI/DO

RoHS, WEEE CE<sup>\*</sup>, FCC<sup>\*</sup>, RCM<sup>\*</sup>, Telec<sup>\*</sup>, E-Mark<sup>\*</sup> (\*: 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 | LTE-A /LTE /WCDMA/HSDPA/HSUPA/HSPA+/DC-HSPA+         |
|                       | / CDMA (CDMA 1X/EVDO)                         | /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          | NA/EMEA: B1-B5/B7/B8/B12/B13/B20/B25/B26/B29/B30/B41 |
|                       | 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                    |  |
| 3G                    | WCDMA/HSDPA/HSUPA/HSPA+/DC-HSPA+:             | WCDMA/HSDPA/HSUPA/HSPA+/DC-HSPA+:                    |
|                       | B1/B2/B5/B6/B8/B9/B19                         | B1-B6/B8/B9/B19                                      |
|                       | TD-SCDMA: B34/B39                             | TD-SCDMA: B34/B39                                    |
|                       | CDMA (CDMA 1X/EVDO): R0/A BC0/BC1/BC10        |  |
| 2G                    | 850/900/1800/1900 MHz                         | 850/900/1800/1900 MHz                                |
| Operating Temperature | Normal operation: -20 to +55 °C               | Normal operation: -20 to +55 °C                      |
|                       | Extended operation: -25 to +70 °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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# **Assured Systems**

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

# US

sales@assured-systems.com

Sales: +1 347 719 4508 Support: +1 347 719 4508

1309 Coffeen Ave Ste 1200 Sheridan WY 82801 USA

# **EMEA**

sales@assured-systems.com

Sales: +44 (0)1785 879 050 Support: +44 (0)1785 879 050

Unit A5 Douglas Park Stone Business Park Stone ST15 0YJ United Kingdom

VAT Number: 120 9546 28 Business Registration Number: 07699660