



INTRODUCTION

The R5010 is Robustel's new 5G capable router supporting global 5G, 4G and 3G bands. The R5010 leverages our tried and tested high performance **RobustOS 5** – an Operating System developed in-house by Robustel that has passed extensive 3rd party penetration testing.

R5010 is compatible with 3GPP Release 16 and targeted at the following applications:

Primary Broadband – Cellular network operators can now provide unlimited 5G tariffs at very reasonable prices. For many, a chance to cut the cables and use a wireless internet connection can be technically or commercially favorable.

SD-WAN – whilst many appliances have cellular options built-in, the R5010 can offer a very low-cost way to add a 5G backup route & by virtue of being able to located externally to the appliance, is more likely to get a good 5G signal!

RCMS is Robustel's free router monitoring service that is fully compatible with the R5010. It is an extremely polished piece of software hosted on MS Azure & available as a privately hosted instance. You can try Robustel's free router management platform by signing up here: https://rcms-cloud.robustel.net

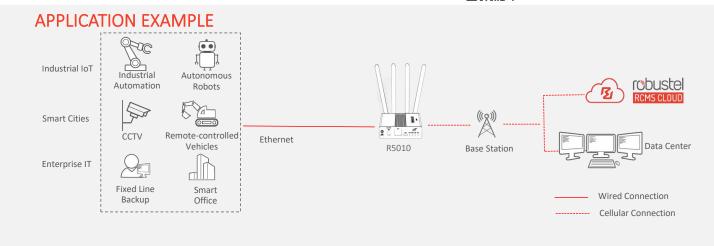
KEY FEATURES

- Low cost industrial 5G Router
- Global 5G/4G/3G cellular connections
- Cutting-edge 5G 3GPP Release 16 cellular interface
- > 1 x 1000Mbps Ethernet port
- PoE-PD, compatible with IEEE 802.at standard
- USB modem mode supported
- Fully programmable Operating System with a well-documented SDK
- Multiple VPN options available including DMVPN, IPsec, L2TP + more...
- Free cloud management platform -RCMS
- Robust metal enclosure with small footprint – DIN-rail + wall mount options











SPECIFICATIONS

Cellular Interface

Number of antennas 4 (ANT0 + ANT1 + ANT2 + ANT3)

Connector SMA-K

SIM 2 x Mini SIM (2FF)

Ethernet Interface

Number of ports 1 x 10/100/1000 Mbps, LAN

Isolation protection 1 KV

LAN port Support 802.3at PD feature on ETH

Others

Reset button 1 x RST

LED indicators 1 x RUN, 1 x Modem, 1 x USR, 1 x RSSI,

USB 1 x USB 3.1 (Type C) for Power Supply, Network

Supply and Debug

Watchdog External Regulatory and Type Approvals

Environmental RoHS2.0

Physical Features IEC 60068-2-6 (Sinusoidal Vibration)

IEC 60068-2-64 (Random Vibration)
IEC 60068-2-27 (Mechanical Shock)

EMI EN 55032 Conducted Emission Class B
EN 55032 Radiated Emission Class B
EMC EN 61000-3-2 (Harmonic Current)

EN 61000-3-3 (Voltage Flicker)

EN 61000-4-2 (ESD) Contact Level 3, Air Level 3 EN 61000-4-3 (RS) Level 2

EN 61000-4-4 (EFT) Power Ports Level 2

Signal Ports Level 2

EN 61000-4-5 (Surge)

Line to line Level 2, Line to ground Level2

EN 61000-4-6 (CS) Level 2 EN 61000-4-11 (Dips) Class 2 Software (Basic features of RobustOS)

Network protocols PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP,

HTTPs, DNS, ARP, NTP, SMTP, Telnet, VLAN, SSH2,

DDNS, etc.

VPN tunnel IPsec, OpenVPN, GRE

Firewall DMZ, anti-DoS, Filtering (IP/Domain name/

MAC address), Port Mapping, Access Control

Remote management Web, CLI, SMS
Others Data Guard, etc.

SDK

Supported programming languages C, C++
Flash available for SDK 110MB

RAM available for SDK 45MB **App Center** (Available Apps for RobustOS)

Apps* L2TP, PPTP, DMVPN, VRRP, QoS, SNMP, Language,

RCMS, Data Guard

*Upon request. For more Apps please visit www.robustel.com.

Power Supply and Consumption

Connector 4-pin Micro-Fit socket

Input voltage 9 ~ 60 VDC

5V/3A by USB Type C Port
PoE-PD Voltage Possibility to power up throu

Possibility to power up through ETH 44 ~ 57 VDC

Power consumption Idle: 1.5w

Data link: 15w

Physical Characteristics

Ingress protection IP30

Housing & Weight Aluminum, 276 g
Dimension 100*94*30 mm

Installations DIN rail mounting, desktop or wall mounting

Operating temperature $-40 \sim +70 ^{\circ} \text{C}$ Storage temperature $-40 \sim +85 ^{\circ} \text{C}$ Relative humidity $5 \sim 95 ^{\circ} \text{RH}$

ORDERING INFORMATION

Model	PN	Frequency Bands*	Country/Region	Certification (*Planned)
R5010-A-5G-A28EU	B113001	5G: NR SA/NSA: n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/ n75/n76/n77/n78 4G: LTE FDD: B1/B3/B5/B7/B8/B20/B28/B32 LTE TDD: B38/B40/B41/B42/B43 3G: WCDMA: B1/B5/B8	EMEA ANZ	CE*, UKCA*, CB*, RCM*

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





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.

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