



R3010 robust

Industrial Cellular IoT Gateway 2xEth + 1xVoice + 1xRS-232 + 1xRS-485 +1xCAN + 1xConsole + 1xUSB

INTRODUCTION

Robustel R3010 is an industrial gateway designed for elevator monitoring and provides fast, reliable and stable Internet connectivity.

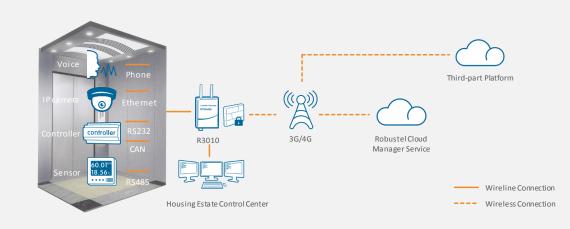
R3010 is a powerful gateway developed from **RobustOS**, a Robustel self-developed and Linux-based operating system which is designed to be used in Robustel hardware routers. The RobustOS includes basic networking features and protocols providing customers with a very good user experience. Meanwhile, Robustel offers a **Software Development Kit** (SDK) for partners and customers to allow additional customization by using C, Python or Java. It also provides rich **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, China, 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.

PRODUCT DATASHEET

KEY FEATURES

- Supports 2G/3G/4G cellular network
- Supports always online and connect according to needs
- Various interfaces: RS232/CAN/RS485/Console/USB/Ethernet/FXS
- > RS485 serial port supports BACnet protocol
- Supports GSM and VoLTE(optional) for voice traffic
- Supports IPSec, OpenVPN, PPTP, L2TP, GRE, DMVPN
- > Supports Modbus RTU/ASCII converts to TCP
- Built-in real time clock, software watchdog
- Supports message, telephone and reboot at regular time
- > Supports e-mail and message event alert
- RobustOS + SDK + App
- Equipped with third party management platform, to realize real-time processing and analysis, fault real-time warning
- Management via SMS/Web/CLI/SNMP/RobustLink Cloud
- Robust industrial design (9 to 26V DC, desktop, wall or DIN rail mounting)



APPLICATION EXAMPLES



SPECIFICATIONS

Cellular Interface		Software(Basic features of RobustOS)	
Number of Antenna Type of Ports SIM slot Number Standards	2 (MAIN + AUX) SMA male 1 (3.0 V/1.8 V) GSM/GPRS/EDGE/WCDMA/HSDPA/HS UPA/HSPA+/DC-HSPA+/TD-SCDMA/CD MA (CDMA 1X/EVDO)/FDD LTE/TDD LTE	Network protocols VPN tunnel Firewall	PPP、PPPOE、TCP、UDP、DHCP、ICMP、NAT、 HTTP、HTTPs、DNS、ARP、RIP、OSPF、NTP、 SMTP、Telnet、VLAN、SSH2、IP Pass-through, etc. IPsec, OpenVPN, GRE DMZ, anti-DoS, Filtering (IP/Domain name/MAC address), Port Mapping, Access Control
Device Management Management	Web, CLI, SNMP v1/v2/v3, SMS RobustLink device management cloud	Management Serial port	Web, CLI, SMS Transparent, TCP Client/Server, UDP, Modbus RTU Gateway, BACnet
	platform	App center(Apps of RobustOS)	
	RobustVPN VPN cloud platform	Apps	L2TP、PPTP、DMVPN、RobustVPN、
LED Indicators			DDNS、VRRP、QoS、Captive Portal、
LED Indicators	RUN, MODEM, USR, RSSI(1-3), PWR Network port indicator		WLAN Multi AP、SNMP、Language、
	p	*Request on demand for n	RobustLink nore Apps please visit www.robustel.com.
Voice Interface			
Physical Connector	3-pin 3.81mm connector	Power Supply and Co	nsumption
Interface type	1xFXS	Power supply interface	2-pin 3.81mm connector
Interface Standard	ITU Q.512 (SLIC), ITU K.20 (overcurrent and overvoltage	Input voltage	9 to 26 VDC
	protection)	Power consumption	900 mA (MAX) @ 9 V, 600 mA (MAX) @ 12 V,
Subscri	iber line interface circuit (SLIC)		400 mA (MAX) @ 26 V
Ring voltage 40~90 Vpk configurable		Physical Characteristics	
Ring frequency	20~25 Hz	Industry Protection Level	IP30
Ring waveform	sinusoidal	Housing	Metal, 300g
Maximum ringer load	5 ringer equivalence numbers (RENs)	Dimensions	134mm x 98mm x 32mm
On-hook voltage (tip/ring) Off-hook current	-46~-56V 18~20 mA	Installation	Desktop, wall and DIN rail mounting
Terminating impedance	configurable	Operation Temperature	-40~75°C
icininating impedance	comparable	Storage Temperature	-40~85°C
Other		Humidity	5~95%RH
Number of Ports	1x RS-232, 1 x CAN, 1 x RS-485 serial	Approvals	
	port, 1 x Console, 1 x SIM port		
RS-232	Tx, Rx, GND	Regulatory	CE, FCC, IC, PTCRB
CAN	H, L, GND	Carrier	
RS-485 Console	A (Data+), B (Data-), GND Tx, Rx, GND	Environmental	RoHS, WEEE
Interface	3-pin 3.81mm connector		
Type of Ports	2 x SMA female antenna port (MAIN +AUX)		
Ethernet Port	2 x 10/100 Mbps (ETH0 + ETH1)		

ORDERING INFORMATION

Expansion

Model	R3010-4L
Antenna Number	2
Air Interface	GSM/GPRS/EDGE/ HSDPA/HSUPA/HSPA+/FDD LTE
Frequency Bands	EU: B1/B2/B3/B4/B5/B7/B8/B20
4G*	US: B2/B4/B5/B13/B17
3G	HSDPA/HSUPA/HSPA+/: B1/B2/B5/B8
2G	GSM/GPRS/EDGE: 850/900/1800/1900 MHz
Storage Environment	-40 to 85°C
Operating Environment	-40 to 75°C
Relative Humidity	5 to 95% RH

*For more information about 4G frequency bands in different countries, please contact your Robustel sales representative.

1 x USB 2.0 host up to 480 Mbps

In the second second

Email: info@robustel.com | Website: www.robustel.com ©2019 Guangzhou Robustel LTD All rights reserved. Subject to change without notice.



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