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IOT-R32W

Industrial 4G LTE Cellular Router supports RS485 & DI & DO, WiFi and Dual SIM Cards



Outstanding Features

Network Connectivity

- 4G LTE CAT4 network supporting multiple carriers.
- Automated failover and failback occur between Wi-Fi, WAN and cellular connections.
- Dual SIM cards support for enhanced connection robustness.
- Wi-Fi access compliant with 802.11b/g/n standards.

Protocol, Port & Control

- Supports RS232/RS485, Modbus RTU/TCP, MQTT, and more.
- 1 WAN port + 1 LAN port, or 2 LAN ports.
- Provides DI/DO remote control functionality.

Industrial Design

- Industrial-grade design with an NXP industrial grade processor.
- Rugged enclosure with IP30 protection, suitable for harsh environments.
- Can be mounted on DIN rail or shelves.
- Operates in a wide temperature range from -40°C to +70°C (-40°F to +158°F).

Security and Management

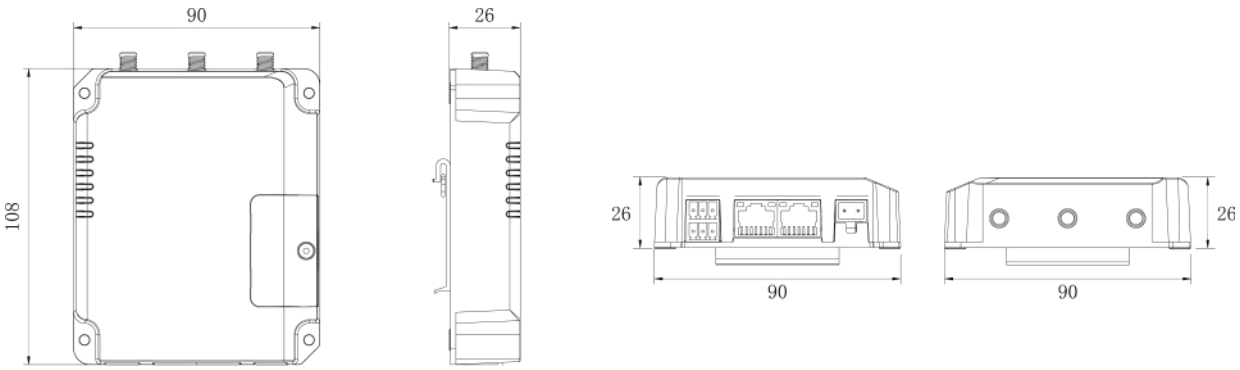
- Secure VPN tunnels (IPsec, OpenVPN, etc.)
- Supports RemoteMonit (Linovision Cloud Service) management

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Order Models

Model	Band
IOT-R32W(US)	FDD: B2/B4/B5/B12/B13/B14/B66/B71 WCDMA: B2/B4/B5
IOT-R32W(EU)	FDD: B1/B3/B7/B8/B20/B28A TDD: B38/B40/B41 WCDMA: B1/B8 GSM/EDGE: B3/B8
IOT-R32W(AU)	FDD: B1/B2/B3/B4/B5/B7/B8/B28 TDD: B40 WCDMA: B1/B2/B4/B5/B8 GSM/EDGE: B2/B3/B5/B8

Dimension (mm)



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Hardware Specifications

Hardware Platform	
CPU Platform	528 MHz, ARM Cortex A7
RAM	128 MB DDR3
Storage	Built-in 128 MB Flash storage, support extended Micro SD storage (Max. 128 GB)
Interface	
Network Type	4G LTE (CAT 4)/WCDMA/GSM
Ethernet Port	2 × 10/100 Mbps fast Ethernet ports, include 1 × WAN + 1 × LAN (or 2 × LAN) Full or half duplex (Auto-Sensing), Auto MDI/MDIX
Serial Port	1 × RS232/RS485 (Configurable via WEB GUI)
I/O	1 × DI + 1 × DO
Power Supply	DC 9-48 V, 2-pin with 5.08 mm terminal block
Reset Button	Pinhole reset button
Built-in	Watchdog, Timer
SIM Card	Dual drawer-type SIM card slots. 2FF SIM. (SIM card priority can be customized)
Wi-Fi	Standards: IEEE 802.11b/g/n, 150Mbps Modes: AP and Client mode Security: WPA/WPA2 authentication, WEP/TKIP/AES encryption
Antenna Connector	3G/4G: 2 × 50 Ω SMA Connectors (Center PIN: SMA Female) Wi-Fi: 1 × 50 Ω RP-SMA Connector (Center PIN: RP-SMA Female)
Ground Terminal	Supports
Mechanical Specs	
Dimensions	108 x 90 x 26 mm (4.25 x 3.54 x 1.02 in)
Weight	271 g (0.6 lb)
Installation Method	DIN rail, wall mount, flat surface (all require additional kit)
Protection Rating	IP30
Housing	Metal
Cooling	Fanless
Power Rate	
Power Consumption	Typical 1.9 W, Max 2.4 W
Wi-Fi Transmit Power	
Tx Power	802.11b: 16 dBm +/-1.5 dBm (11 Mbps) 802.11g: 14 dBm +/-1.5 dBm (54 Mbps) 802.11n: 13 dBm +/-1.5 dBm (65 Mbps, HT20/40 MCS7)

Ambient Environment	
Storage Temperature	-40℃ to +85℃ (-40℉ to +185℉)
Operating Temperature	-40℃ to +70℃ (-40℉ to +158℉) Reduced Cellular Performance Above 60℃
Ambient Humidity	0% to 95% (non-condensing) at 25℃/77℉
Ethernet Isolation	1.5 kV RMS
Indicator	
LED	1 × POWER, 1 × SYSTEM, 1 × SIM, 3 × Signal strength
Approvals	
Certificate	CE, FCC, RCM, AT&T, T-mobile, Verizon
Environmental	RoHS
EMC	EN 55032, EN 55035
EMS	IEC 61000-4-2 Level 3 IEC 61000-4-3 Level 2 IEC 61000-4-4 Level 2 IEC 61000-4-5 Level 2 IEC 61000-4-6 Level 3 IEC 61000-4-8 Level 1 IEC 61000-4-11 Level 3
Radio Frequency	EN 301 489-1/17/19/52, EN 301 511, EN 301 908-1/2/13, EN303 413
Safety	EN62368-1

Software Specifications

Software System	
Network Protocols	IPv4/IPv6, PPP, PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, RIPv1/v2, OSPF, DDNS, VRRP, HTTP, HTTPS, DNS, ARP, QOS, SNTP, Telnet, VLAN, SSH, MQTT, MQTTS, TR069, etc.
VPN	DMVPN, IPsec, OpenVPN, PPTP, L2TP, GRE
Security	Access Control, DMZ, Port Mapping, MAC Binding, SPI Firewalls, DoS&DDoS Protection, Filtering(IP&Domain), IP Passthrough
Management	Web, CLI, SMS, On-demand dial up, SNMP v1/v2/v3, DeviceHub, RemoteMonit
AAA	Radius, Tacacs+, LDAP, Local Authentication
Multilevel Authority	Multiple Levels of User Authority
Reliability	VRRP, WAN Failover, Dual SIM Backup
Serial Port	Transparent(TCP Client/Server, UDP), Modbus Server/Client, Modbus Gateway (Modbus RTU to Modbus TCP)
Development tools	SDK package with build environment provided
Development language	Python

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Package Contents



IOT-R32W



3 * Cellular Antennas



Card Slot Adapter



Power Adapter



Network Cable



Terminal



Din-rail Mounting Pack



Screw Bag



User Manual

Disclaimer: Design and specifications are subject to changes without prior notice.