LINOVISION

IOT-R75W

Industrial 5G Cellular Router with Dual 5G SIM Cards and RS232/485 IoT Integration



Outstanding Features

- Industrial-grade quad-core CPU ARM Cortex-A55 with big memory
- Global 5G (NSA/SA)/4G LTE network with dual SIM cards for backup between multiple carrier networks
- Strong Wi-Fi performance with 2 x 2 MIMO 802.11 a/b/g/n/ac/ax, up to 1.8Gbps
- · Gigabit Ethernet ports for lightning transmission of data
- · Automated failover/failback between Ethernet, Cellular (dual SIM), and Wi-Fi
- Embeds hardware watchdog to automatically recover from various failures, ensure the highest level of availability
- Provide 1xRS232, 1xRS485, 1x DI, 1xDO for IoT integration
- Secure VPN connection (OpenVPN, IPsec, PPTP, L2TP)
- Support wide voltage input 9 ~ 48V DC
- Rugged design with a wide temperature range from -30°C to +60°C or -22°F to +140°F
- Support Cloud upgrade and remote management



Specification

Hardware System	
CPU	Quad-core ARM Cortex-A55, 2 GHz
Memory	1 GB LDDR4x RAM and 1 GB NAND Flash
Extendable Storage	1 × M.2 NVMe SSD Interface
Cellular Interface	The first two costs interface
Network	5G NR SA & NSA/4G LTE/WCDMA
Frequency	5G Sub-6: N1/N3/N5/N7/N8/N20/N28/N38/N40/N41/N77/N78 LTE FDD: B1/B3/B5/B7/B8/B20/B28/B32 LTE TDD: B38/B40/B41/B42/B43 WCDMA: B1/B5/B8
Antenna	4 × 50 Ω SMA Connectors (Center PIN: SMA Female)
SIM Slot	2 (Mini SIM-2FF), 1.8V/3V
Ethernet Interface	
Numbers	5 × 10/100/1000 Mbps
Property	1 × WAN +4 × LAN
Mode	Full or Half Duplex (Auto-Sensing)
Ethernet Isolation	1.5 kV RMS
PoE (Optional)	4 × 802.3 af/at PoE PSE on LAN Ports
Wi-Fi Interface	T SSEE GIVE THE STEE STEE STEE STEE STEE STEE STEE
Antenna	4 × 50 Ω SMA Connectors (Center PIN: RP-SMA Female)
	IEEE 802.11b/g/n/ax 2 x 2 MIMO, 2.4 GHz
Standards	IEEE 802.11a/n/ac/ax 2 x 2 MIMO, 5 GHz
Max Bit Rate	2.4 GHz: 600 Mbps, 5 GHz: 1200 Mbps
GNSS	2.1 6112. 666 1 1556, 6 6112. 1266 1 1556
Antenna	1 × 50 Ω SMA Connector (Center PIN: SMA Female)
Technology	GPS/GLONASS/BDS/Galileo/QZSS
Positioning Accuracy	2m CEP (Open Air)
Serial Interface	Zili GEL (Open / Mi)
Numbers	1 × RS232 + 1 × RS485
Connector	3.5 mm Terminal Block
Baud Rate	300bps to 230400bps
DI/DO	3000ps to 2304000ps
Numbers	1 × DI + 1 × DO, Galvanic Isolation
	3.5 mm Terminal Block
Connector	
Digital Input	Dry Contact
Digital Output	Wet Contact, maximum 0.3A@30VDC
Others	1 to LICD 2.0 (Torse C) for Device Coronic Nationals Coronic and Debug
USB	1 × USB 3.0 (Type-C) for Power Supply, Network Supply and Debug
Reset Button	1 × RESET
LED Indicators	1 × SYSTEM, 1 × SIM1, 1 × SIM2
Power Connector	1 × 2-pin 5.08 mm Terminal Block, with Surge-Protection and Reverse Polarity Protection
Built-in	Watchdog, Timer
Power Supply and Consumption	
Power Input	9-48 VDC by Power Connector (48V is need for PoE) 5V, 3A by Type-C Port
Power Output (Optional)	4 × 802.3 af/at PoE PSE on LAN Ports Per Port 30W Max., Total 60W Max.
Power Consumption	Without Wi-Fi: Typical 2.8 W, Max 5.5 W
(In Non-PoE mode)	With Wi-Fi: Typical 7 W, Max 13.7 W
Physical Characteristics	l Dec
Ingress Protection	IP30
Housing & Color	Metal, Black
Weight	567.2g
Dimension	135 x 115 x 36.4 mm (5.31 x 4.53 x 1.43 in)
Installation	Desktop, Wall or DIN Rail Mounting
Environmental	
Operating Temperature	-40°C to +70°C (-40°F to +158°F)
Storage Temperature	-40°C to +85°C (-40°F to +185°F)
Relative Humidity	0% to 95% (Non-condensing) at 25°C/77°F
Approvals	
Regulatory	CE, RCM
Environmental	RoHS

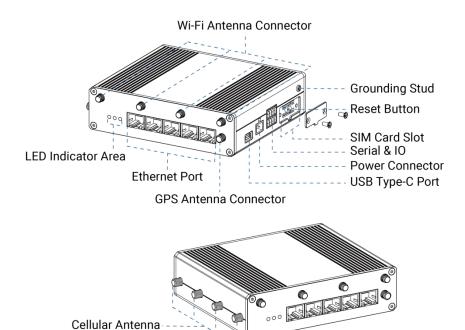
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Specification

Network	
Network Protocols	IPv4/IPv6, TCP, UDP, DHCP, HTTP, HTTPS, ARP, NTP, DNS, SSH, VLAN, DDNS, SNMP, MQTT, MQTTS, etc.
Routing	Static Routing
DDNS	Supported >14 service providers, others can be configured manually
IP Passthrough	Support to assign WAN IP address to the device on LAN
Reliability	WAN Failover, Dual SIM Backup
Diagnostics Tools	Ping, Traceroute, Nslookup, TCPDUMP, Logs, Cellular AT Command Debugger, Firewall iptables Debugger
Wi-Fi Interface	
Modes	AP or Client mode
Security	WEP/WPA/WPA2 authentication, WEP/TKIP/AES encryption
MAC Filter	Blacklist, Whitelist
GNSS	
Protocol	NMEA0183
Mode	Support reading by Serial Port, MQTT, TCP Client/Server, UDP Server
Security	
Firewalls	Access Control, DMZ, Port Mapping (DNAT), SYN-Flood Protection,
	Filtering(IP&Domain), Custom iptables Rules
VLAN	Port and tag-based VLAN separation
Multilevel Authority	Multiple Levels of User Authority
VPN	
OpenVPN	Multiple Clients and a Server Support
IPsec	Multiple Clients and a Server Support
L2TP	L2TP Client Support
PPTP	PPTP Client Support
Others	
Serial Mode	Transparent(TCP Client/Server, UDP Server, MQTT Client), Modbus TCP/RTU Client, Modbus Gateway (Modbus RTU to Modbus TCP)
Digital Input	Support reading by SMS, MQTT
Digital Output	Support triggering by DI, SMS, MQTT
App	Node-RED
Management	
Configuration	Web, SNMP v1/v2c/v3, DeviceHub
Update	Web, DeviceHub
Device Management	DeviceHub, OpenVPN
SNMP	SNMP v1/v2/v3, Support SNMP Trap
SMS	Send/Receive SMS, SMS Control
Event Alarm	System Startup/Reboot, Network Up/Down, Link Switch, VPN Up/Down, Cellular Traffic Monitoring, etc.

Hardware Overview



Connector



Accessories



 $1 \times Power Adapter$



1 × 8-Pin Pluggable Terminal



1 × DIN Rail Clip Kit



4 × Stubby Cellular Antennas



4 × Stubby Wi-Fi Antennas



1 × GPS Antenna



Antenna Magnetic Mount (Optional)

Dimensions (mm)

