

IOT-R51W

Industrial 4G LTE Global IoT Router With Pre-Loaded Data Plan



Outstanding Features

Industrial 4G LTE Cat4 Cellular Router

- **Plug-n-Play:** Connect instantly on power-up. Features digital SIM with pre-loaded data plan.
- **Fast 4G LTE Cat4:** Offers up to 150Mbps bandwidth, great for security cameras, RVs, and computers.
- **IoT-Ready:** Integrates RS485 & MQTT for IoT sensors, solar charge controllers, etc.
- **Reliable Connectivity:** Automatically switches to the best network.
- **Global Reach:** Works in most countries. Choose local data plans without roaming fees.
- **Flexible Billing:** Pay-as-you-go, no monthly contracts.
- **IoT-Friendly Design:** Ideal for large-scale IoT deployment. Monitor device status and data usage via dashboard.

Pre-loaded Data Plans

- **5GB/365 days:** Perfect for IoT devices like weather stations or solar charge controllers.
- **60GB/365 days:** Suitable for single-camera connections.

Important Notification: The Global IoT Cellular Router is designed without physical SIM card support. Consequently, users cannot utilize their personal data plans with this device.

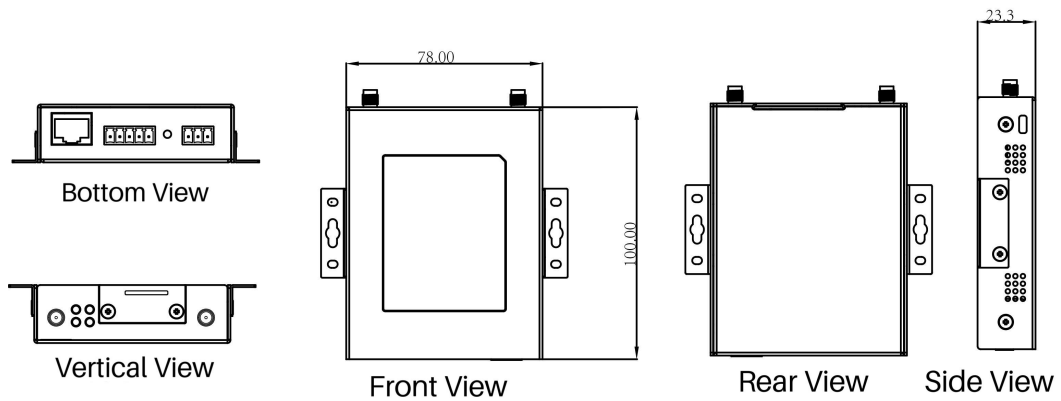
Global Reach & Flexible Data Refill Options

	1GB (30 Days)	10GB (30 Days)	5GB (365 Days)	10GB (365 Days)	60GB (365 Days)
United States	✓	✓	✓	✓	✓
Canada	✓	✓	✓	✓	✓
Mexico	✓	✓	✓	✓	✓
Japan	✓	✓	✓	✓	✓
Europe	✓	✓	✓	✓	✓
Australia	✓	✓	✓	✓	✓

Order Models

IOT-R51W-5G365D	Global IoT Cellular IOT-R51W with pre-loaded 5GB data valid for 365 days.
IOT-R51W-60G365D	Global IoT Cellular IOT-R51W with pre-loaded 60GB data valid for 365 days.

Dimension



Specification

Hardware

Hardware platform	
Processor	Industrial grade 32-bit processor
DRAMCapacity	64MB (expandable to 128MB)
FlashCapacity	16MB (expandable to 32MB)
Cellular Interface	
4G	LTE FDD: B1/B2/B3/B4/B5/B7/B8/B9/B12/B13/B17/B18/B19/B20/B25/B26/B28/B66 LTE TDD: B34/B38/B39/B40/B41
3G	WCDMA/HSPA: B1/B2/B4/B5/B8
2G	GSM/GPRS/EDGE: B2/B3/B5/B8
SIM/UIM Card Interface	Standard drawout interface. Support 1.8V/3V SIM/UIM card. Built-in 15KV ESD protection
Antenna	1 * 4G antenna (Standard SMA female connector, 50 ohm characteristic impedance)
Ethernet Interface	
Property	1 * FE LAN 10/100Mbit/s adaptive, built-in 1.5KV magnetic isolation protection
Wi-Fi Interface	
Antenna	1 * WiFi antenna (Standard SMA female connector, 50 ohm characteristic impedance)
Standards	IEEE 802.11n b/g/n 2.4GHZ
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)
Modes	AP or Client mode
Security	WPA/WPA2 authentication WEP/TKIP/AES encryption
Serial Interface	
Numbers	1 * RS485
Connector	5-PIN terminal connector
Baud Rate	300bps to 115200bps
Protocol	MQTT
Others	
Operating System	PanGu OS (Linux-based fully customizable)
LEDIndicator	1 * PWR, 1 * ETH, 1 * SYS, 1 * NET
Power Interface	Terminal power base, built-in power reverse phase protection and overvoltage protection
Reset Button	Through this button, the parameter configuration of the device can be restored to the factory value

Power

Power Supply	Rated: DC 12V/1A Range: DC 6~35V
Power Rate	Idle: 120mA@12VDC Average: 150mA@12VDC Peak: 200mA@12VDC
Power Interface	Terminal power base, built-in power reverse phase protection and overvoltage protection

Mechanical Specs

Outer Casing	Metal casing, ingress protection rating IP30
Dimensions (W*D*H)	100mm * 78mm * 22mm (or 3.94" * 3.07" * 0.87), not including antenna and mounting parts
Weight	210g (or 0.46lbs)
Operating Temperature	-30~+75°C (or -22~167°F)
Storage Temperature	-40~+85°C (or -40~185°F)
Relative Humidity	5~95% (anti-condensation)
Installation Method	Fixed wall bracket

Software

Network Connection

Internet Access	APN, VPDN
Access Authentication	CHAP/PAP/MS-CHAP/MS-CHAPV2
LAN Protocols	ARP, Ethernet
WAN Protocols	Static IP, DHCP, PPPoE
VLAN	Management VLAN

Security

VPN	IPsec, L2TP/PPTP, GRE, OpenVPN, N2N
Firewall	NAT, PAT, DMZ, Port Mapping IP filtering, port filtering, MAC filtering

Reliability

Link Backup	4G/3G/2G wireless network, Wi-Fi and wired ethernet switching
Link Detection	TCP/Ping heartbeat detection, VPN link detection, auto reconnect
Embedded Watchdog	self-diagnostics, self-healing

Network Management

QoS	Uplink and downlink bandwidth limitation
DTU	Built-in software DTU function
Task Timer	Scheduled restart

Traffic Statistics	Real-time traffic statistics Monthly traffic statistics Datacap setting
SNMP	SNMP v1/v2
Configuration Maintenance	Web management Telnet and SSH terminals System Status Monitoring NTP client, supports device system clock network synchronization Support remote management of Linovision cloud platform Configuration import and export Network tools: Ping, Tracert
Firmware Management	Firmware upgrade, support local (HTTP/serial port) and remote upgrade
Event Alarm	System log, application log