

## 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.

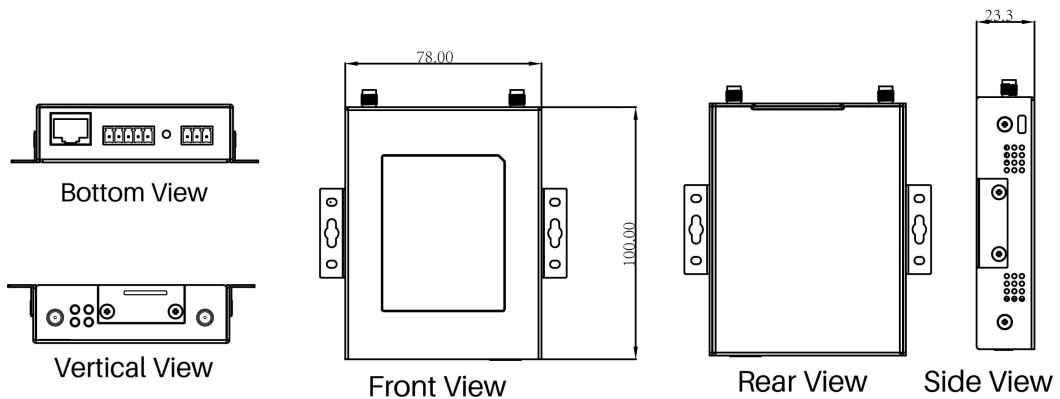
## Global Reach & Flexible Data Refill Options

	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 (mm)



## Hardware Specifications

Hardware platform	
CPU Platform	Industrial grade 32-bit processor
RAM	64MB (expandable to 128MB)
Flash	16MB (expandable to 32MB)
Interface	
Network Type	4G LTE / WCDMA / GSM 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 WCDMA/HSPA: B1/B2/B4/B5/B8 GSM/GPRS/EDGE: B2/B3/B5/B8
SIM Slot	Present, but customer-supplied SIM cards unsupported
Serial Port	1 * RS485 5-PIN terminal connector MQTT Protocol
Ethernet Interface	1 * FE LAN 10/100Mbps adaptive, built-in 1.5KV magnetic isolation protection
Antenna Connector	1 * 4G antenna (Standard SMA female connector, 50 ohm characteristic impedance) 1 * WiFi antenna (Standard SMA female connector, 50 ohm characteristic impedance)
Reset Button	Through this button, the parameter configuration of the device can be restored to the factory value
Wi-Fi	Standards: IEEE 802.11n b/g/n 2.4GHZ Modes: AP and Client mode Security: WPA/WPA2 authentication, WEP/TKIP/AES encryption
Ground Terminal	Supports
Mechanical Specs	
Outer Casing	Metal casing, ingress protection rating IP30
Dimensions	100mm * 78mm * 22mm (or 3.94" * 3.07" * 0.87"), not including antenna and mounting parts
Weight	210g (or 0.46lbs)
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
Power 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)
Indicator	
LED	1 * PWR, 1 * ETH, 1 * SYS, 1 * NET

## Ambient Environment

Operating Temperature	-30~+75°C (or -22~167°F)
Storage Temperature	-40~+85°C (or -40~185°F)
Ambient Humidity	5~95% (anti-condensation)

## Software Specifications

### Software System

Operating System	PanGu OS (Linux-based fully customizable)
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
IP Application	Ping, Traceroute, DHCP Server/Client, DNS Relay, Dynamic DNS, Telnet, SSH, HTTP, HTTPS, TFTP, FTP, SFTP, NAT
IP Routing	Static routing, dynamic routing
VPN	IPsec, L2TP/PPTP, GRE, OpenVPN, N2N
Firewall	NAT, PAT, DMZ, Port Mapping IP filtering, port filtering, MAC filtering
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
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

## Package Contents



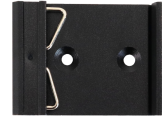
IOT-R51W



4G Full-Band Antenna



2.4G-WiFi Antenna



Din Rail



Screws



Terminals



Power Adapter



User Manual