

IOT-R41

Mini Industrial 4G LTE Router with Low Power Consumption Design



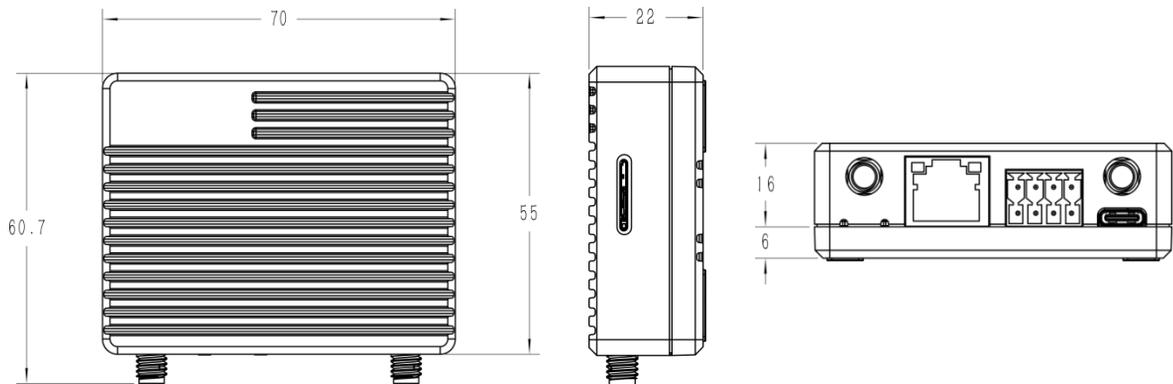
Outstanding Features

- 4G LTE CAT4/3G Network With Multiple Carrier Networks
- Super Compact Dimension(70 x 55 x 22 mm) Ideal for Embedded Scenes
- Support DC 5-24V Wide Voltage Input
- Power Consumption as low as 60mA with Smart Operating Modes
- Supports RS232/RS485 and DI / DO Remote Control
- USB 2.0 (Type-C) for Power Supply, Network Supply, and Debug
- Industrial Design for Harsh Environment
- Support Fail-over and Watchdog for a Robust Connection
- GPS and Global Navigation Satellite System (GNSS) Included
- Support Various VPN for Remote and Secure Connectivity
- Remote and Bulk Management for Easy Maintenance

Specification

Hardware System	
CPU	ARM Cortex-A7, 528 MHz
Memory	128 MB DDR3 RAM and 128 MB Flash
Cellular Interface	
Network	4G LTE (CAT 4)/WCDMA/GSM
Antenna Connector	1 × 50 Ω SMA Connector (Center PIN: SMA Female)
SIM Slot	1 (Nano SIM-4FF)
Ethernet Interface	
Numbers	1 × 10/100 Mbps LAN Port
Mode	Full or Half Duplex (Auto-Sensing)
GNSS	
Antenna Connector	1 × 50 Ω SMA Connector (Center PIN: SMA Female)
Technology	GPS/GLONASS/Beidou/Galileo/QZSS
Serial Interface	
Number	1 × RS232 or 1 × RS485 (Software Switchable)
Connector	3.5mm Terminal Block
Terminal Resistor	1 × 120 Ω Resister Switch (for RS485)
Baud Rate	300bps to 230400bps
DI/DO	
Numbers	1 × DI (dry contact) + 1 × DO (wet contact), Galvanic Isolation
Connector	3.5mm Terminal Block
Maximum V/A	0.3A@30VDC (DO)
Others	
Reset Button	1 × RESET
USB	1 × USB 2.0 (Type-C) for Power Supply, Network Supply and Debug
LED Indicators	1 × SYSTEM, 1 × SIM
Built-in	Watchdog, Timer
Software	
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, SSH, etc.
VPN	DMVPN, IPsec, OpenVPN, PPTP, L2TP, GRE
Security	SPI Firewalls, Access Control (ACL), DMZ, Port Mapping, MAC Binding, DoS&DDoS Protection, Filtering(IP&Domain)
Management	Web, CLI, SMS, On-demand dial up, SNMP v1/v2/v3, DeviceHub, VPN
AAA	Radius, Tacacs+, LDAP, Local Authentication
Multilevel Authority	Multiple Levels of User Authority
Serial Port	Transparent(TCP Client/Server, UDP), Modbus Master/Slave, Modbus Gateway (Modbus RTU to Modbus TCP)
Power Supply and Consumption	
Power Connector	2-pin 3.5 mm Terminal Block
Power Input	1. 5-24 VDC, with Surge-Protection and Reverse Polarity Protection 2. 5V/1A by USB Type-C Port
Power Consumption	Idle: 78mA@12V Data link: 226mA (peak)@12V Standby mode: 6.3 mA@12V
Physical Characteristics	
Ingress Protection	IP30
Housing & Color	Metal, Black
Weight	103g
Dimension	70 x 55 x 22 mm (2.76 x 2.17 x 0.87 in)
Installation	Desktop, Wall Mounting
Environmental	
Operating Temperature	-40°C to +60°C (-40°F to +140°F)
Storage Temperature	-40°C to +85°C (-40°F to +185°F)
Ethernet Isolation	1.5 kV RMS
Relative Humidity	0% to 95% (Non-condensing)

Dimensions (mm)



Ordering Information

Model	Band
IOT-R41(US)	LTE-FDD :B2/B4/B5/B12/B13/B25/B26 WCDMA: B2/B4/B5
IOT-R41(EU)	LTE-FDD: B1/B3/B7/B8/B20/B28 WCDMA: B1/B8 GSM/EDGE: B3/B8
IOT-R41(AU)	LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B28/B66 WCDMA: B1/B2/B5/B8 GSM/EDGE: B2/B3/B5/B8

* Any other frequency band requirements please contact us.