

Datasheet

Industrial M2M LTE Gateway

WI-IOT110



Overview

Wi-Tek's Industrial M2M LTE Gateway is designed to provide M2M/IoT application solutions for most areas. The product is designed for flexible installation and supports DIN-Rail mounting. Meanwhile, Wi-Tek provides Industrial M2M LTE Gateway with DI/DO/RS485/Modbus data and robust management functions, which can fulfill the special needs of M2M/IoT applications. All these features help the administrator with one-time deployment with no additional equipment input.

Features

4G LTE

The ideal 4G LTE Router with Cat4 provides up to 150Mbps download speed and 50Mbps upload speed and is backward compatible with 4G/3G networks.

WAN Connection Backup

Works as a router to provide a backup internet connection.

IEEE 802.3af/at PoE Out

Multiple PoE Out Port designs can directly use a network cable to connect the camera and transmit data and power to the camera simultaneously. It greatly facilitates monitoring networking solutions and application scenarios.

Modbus TCP/IP protocol

With RS485, Modbus TCP can be used for transmission to provide flexible network connectivity for factory automation.

I/O ports

Supports 3.3V digital input and 3.3V digital output.

OpenVPN

Support OpenVPN, which enables employees to connect remotely to their main office as securely as in the office.

Din-rail Mounting

Flexible installation mode, can be correctly installed in complex environments, and meet project requirements.

Cloud Management

The free cloud management platform simplifies a lot of equipment management time and reduces network supervision costs for network administrators.



Specifications

Products	WI-IOT110
Hardware Version	V1
Hardware Features	
Interface	<p>1*10/100Mbps PoE IN WAN (can be configured as a LAN) RJ45 port</p> <p>2*10/100Mbps PoE+ LAN RJ45 ports</p> <p>1*DO (GPIO1) 2-PIN 2.54mm phoenix connector, 3.3V DC power input</p> <p>1*DI (GPIO2) 2-PIN 2.54mm phoenix connector, 3.3V DC power output</p> <p>1*Standard single SIM card slot</p>
Serial Port	<p>1*RS-485 4-PIN 2.54mm phoenix connector, signal: A, B, GND, VCC</p> <p>1*RS-232 9-PIN DB9 female connector</p>
Antenna Connector type	<p>2*4G LTE antenna connectors: SMA-K (screw threads outside and a hole inside)</p> <p>2*2.4G Wi-Fi antenna connectors: RP-SMA-K (screw threads outside and a pin inside)</p>
4G Standards Compliance*	<p>EU module: EC200A-EU</p> <p>LTE-FDD: B1/B3/B5/B7/B8/B20/B28,</p> <p>LTE-TDD: B38/B40/B41</p> <p>WCDMA: B1/B5/B8</p> <p>GSM/EDGE: B3/B8</p> <hr/> <p>North America module: EC25-AFX</p> <p>LTE FDD: B2/B4/B5/B12/B13/B14/B66/B71</p> <p>WCDMA: B2/B4/B5</p>
4G Data Rate*	<p>EU module: EC200A-EU</p> <p>LTE FDD: 150Mbps downlink, 50Mbps downlink</p> <p>LTE-TDD: 130Mbps downlink, 30Mbps downlink</p> <p>DC-HSPA+: 21Mbps downlink, 5.76Mbps downlink</p> <p>WCDMA: 384Kbps downlink, 384Kbps downlink</p> <p>EDGE: 236.8Kbps downlink, 236.8Kbps downlink</p> <p>GPRS: 85.6Kbps downlink, 85.6Kbps downlink</p> <hr/> <p>North America module: EC25-AFX</p> <p>LTE FDD: 150Mbps downlink, 50Mbps downlink</p> <p>DC-HSPA+: 42Mbps downlink, 5.76Mbps downlink</p> <p>WCDMA: 384Kbps downlink, 384Kbps downlink</p>
Wi-Fi Compliant Standards	IEEE 802.11 b/g/n@2.4GHz
Wi-Fi Data Rate	300Mbps
Antenna Gain	2*5dBi omnidirectional LTE whip antennas, 2*5dBi omnidirectional 2.4G Wi-Fi whip antennas
LED Indicator	<p>1*PWR, Power indicator</p> <p>1*RS485 status indicator</p> <p>2*LAN port indicators</p> <p>1*RS232 status indicator</p> <p>1*WAN port indicator</p> <p>5*LTE received signal strength indicators</p>

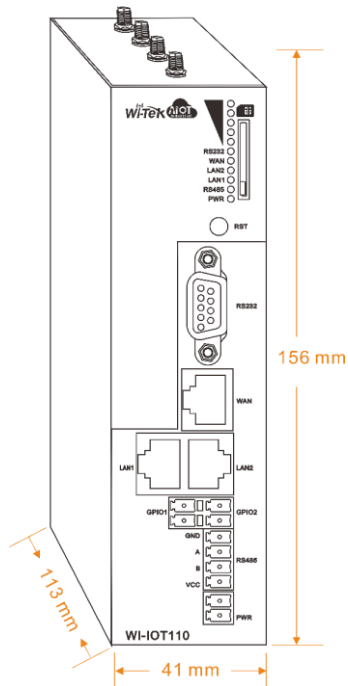
* 4G parameters is different for countries or regions, please refer to the actual product, and it can be customized.

Products	WI-IOT110
Hardware Version	V1
Hardware Features	
Button	RST: Long press over 10 seconds to restore the factory default configuration.
Power supply	12~60V DC, 2-PIN 2.54mm phoenix connector 48V PoE IN *There is no PoE out when the DC input is lower than 48V
Power Consumption	<13W (Without PoE)
Dimensions (W*H*D)	41*156*113mm
Weight	0.47kg
Package Dimensions	268*171*52mm
Package Weight	0.75kg
Installation	DIN-rail/Desktop mounted
Fan Quantity	Fan-less
Material	Metal shell
Color	Black
PoE	
PD Port	Port WAN1
PD Pin Assignment	4/5(+), 7/8(-)
PoE Port	Port LAN1, LAN2
PoE Standard	IEEE 802.3af/at
PoE Pin Assignment	1/2(+), 3/6(-)
PoE Port Power	30W max each port
PoE Power Budget	60W max for whole device @48V DC input 12W max for whole device @PoE input
Reliability	
Operating Environment	-20°C to 65°C, 10%~90% (non-condensation)
Storage Environment	-40°C to 75°C, 5%~90% (non-condensation)
Software Features	
WAN	PPPoE, DHCP client, Static IP, WAN/LAN mode switchover
Cellular	IPv6, APN, PIN Code
Link Failover	Ethernet-4G link priority, Heartbeat data setting
LAN	DHCP server setting
Firewall	WEB access control, ACL, Port mapping, DMZ, MAC binding
Wireless	Wireless enable/disable, SSID, Wireless Security, WMM, Hide SSID, Radio setting
Industrial	DI/DO mode and action setting, Transparent DTU/Modbus DTU/TCP server DTU/UDP server DTU /MQTT DTU/Modbus master/Modbus slave serial mode,
VPN	OpenVPN Server, Open VPN client
System	Firmware upgrade, configuration backup/upload, reboot, restore to factory default
Management	WEB management, Wi-Tek cloud, SD-LAN, Azure, AWS
Advance	Ping watchdog, scheduled reboot, NTP, Ping, Traceroute

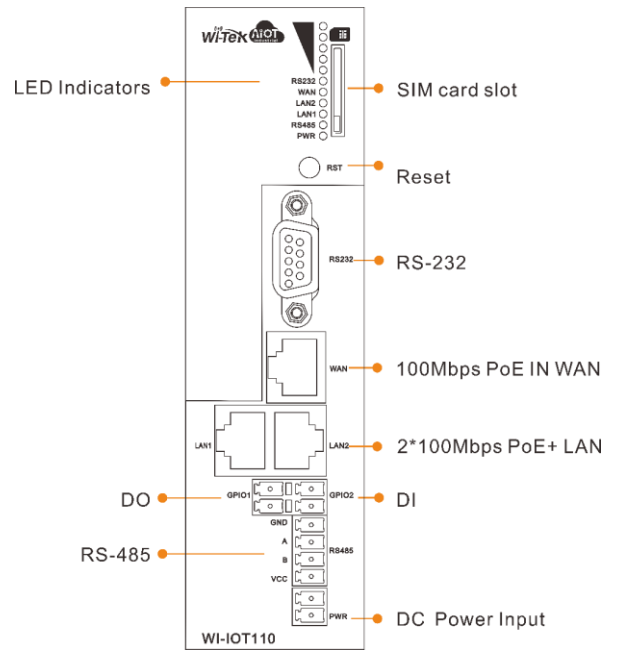
Appearances and Dimensions

WI-IOT110

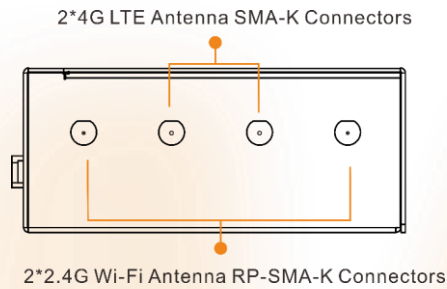
Dimensions



Front Panel



Top Panel



Package Content

Welcome to order our products. After purchasing, you will receive:

Item	Quantity
Gateway	1 pcs
48V@0.5A Power Adapter	1 pcs
5dBi Omnidirectional LTE Whip Antenna	2 pcs
5dBi Omnidirectional 2.4G Wi-Fi Whip Antenna	2 pcs
Quick Installation Guide	1 pcs
Optional Accessory	
5dBi Omnidirectional LTE Magnetic Outdoor Antenna, with 1.5m cable	
5dBi Omnidirectional 2.4G Wi-Fi Magnetic Outdoor Antenna, with 1.5m cable	



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Technical Support



Cloud Management



Company Website