

## G9306 Series 4G Industrial Gateway

# Product Specifications

## Overview

---

The G9306 series is a high-speed, compact, and compact 4G industrial gateway. Using wireless cellular networks as the carrier network, supporting a fully connected 4G/3G/2G network with powerful edge data collection capabilities, achieving data optimization, real-time response, intelligent analysis at IoT edge nodes, and supporting multiple VPN protocols (IPsec, L2TP/PPTP, N2N, GRE) to ensure the security of data transmission.

The G9306 series 4G industrial gateway meets the needs of industrial users and can seamlessly connect with various PLC industrial groups. The equipment has features such as versatility, stability, and scalability.

The G9306 series 4G industrial gateway has C/C++ secondary development, and can be customized according to users' own business, reflecting customer value and meeting various industrial application scenarios.

## Characteristics

---

### Industrial grade design to meet the needs of industrial users

Adopting industrial grade chip design, suitable for harsh working environments in industrial sites

No fan design, suitable for harsh industrial environments, durable and durable

The protection level reaches IP40, and the enclosure and system are safely isolated, suitable for industrial control applications

Low power consumption, supporting +6-48VDC wide voltage power supply, suitable for various on-site power supply methods

### High reliability design ensures stable operation of equipment

Built in watchdog technology for fault self recovery, ensuring stable equipment operation

Multi level link detection and anti drop mechanism ensures that the device is permanently online

Support multiple VPN protocols (IPsec, L2TP/PPTP, N2N, GRE) to ensure data transmission security

Single card, dual antenna design, enhances wireless signal, ensuring stable operation of various on-site networks

### Easy to use and easy to manage

Supports cellular network, wired and wireless access

Support for WEB configuration interface, easy to deploy

Supports local and remote firmware upgrades, saving manpower and resources

Fully functional, fast and convenient experience of wireless communication

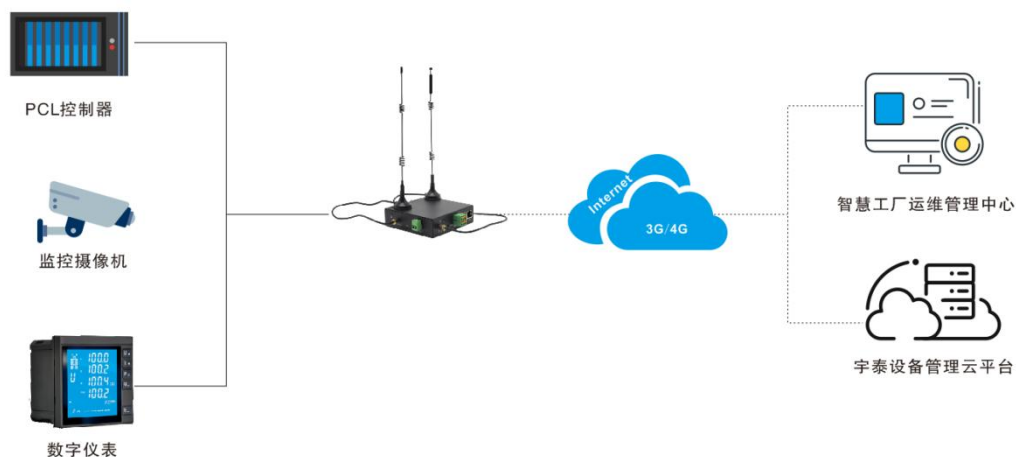
Supports simultaneous access to 4G/3G/2G, WiFi, Ethernet, WLAN wired multiple networks, ensuring faster and more stable network operation

Equipped with high-performance processors, to achieve data optimization, real-time response, and powerful edge computing performance

Supports 2.4GWiFi

Supports multiple industrial interfaces, such as RS232/RS485/USB, etc

## Application solution



The G9306 series 4G industrial gateway can connect PLC, HMI, and industrial high-definition cameras in industrial production sites to the gateway, and perform data collection, data preprocessing, and data analysis through the gateway. And report to the cloud system through MQTT and HTTP protocols. The cloud platform can achieve remote device status monitoring, fault diagnosis analysis, real-time alarm, visualization, and help small and medium-sized enterprises achieve a set of industrial intelligent remote operation and maintenance management system solutions.

## Technical specifications

Name	specifications
CPU	580MHz 32-bit processor
DRAM	64MB
NAND FLASH	128MB
OS	Deep customization based on Linux
4G	FDD-LTE: B1/B3/B5/B8 TDD-LTE: B38/B39/B40/B41
3G	WCDMA: B1 CDMA2000 EVDO: 800MHz TD-SCDMA: B34/B39
2G	EDGE/GPRS/GSM:1800MHz/900MHz CDMA2000 1X: 800MHz
SIM/UIIM	Supports 1.8V/3V SIM/UIIM Built-in 15KV ESD protection 1 x Drawer type card holder
Industrial serial interface RS232/RS485	1xRS232/RS485, 1xRS232 Port Built-in 15KV ESD protection
Antenna interface	2 external antenna interfaces with a characteristic impedance of 50 ohms,, SMA female head, 1 4G antenna interface, 1 WIFI&GPS antenna interface
pilot lamp	1xPWR power indicator light 1xVPN indicator light 1xNET network indicator light 3xSignal network signal indicator light
power interface	Equipped with terminal power supply and built-in anti reverse connection protection to prevent equipment damage caused by incorrect positive and negative connections
Standard power supply	DC12V/1A、 Supports overload protection and reverse connection protection
RESET	The parameter configuration of the device can be restored to the

	factory values
Real Time Clock	Built in RTC function
Ethernet interface	1x 10/100Mbit/s Adaptive WAN port, configurable as Ethernet LAN port 1x 10/100Mbit/s Adaptive Ethernet LAN port with built-in 1.5KV electromagnetic isolation protection
USB interface	1xUSB2.0
Power supply range	+6~48VDC (DC model)
Size	WxDxH=105x100x30mm
Idle current	230mA@12VDC
peak current	500mA@12VDC
Power consumption	6W
Environmental temperature and humidity	Storage temperature: -40~+85 ° C Working temperature: -30~+75 ° C Relative humidity: 5%~95% (without condensation)
Net weight	About 293g
housing	Metal shell design, protection level up to IP40
Installation method	Desktop, wall mounted, rail mounted
<b>Name</b>	<b>Software specifications</b>
LAN protocol	ARP, Ethernet
WAN protocol	Static IP, DHCP, PPPoE
network access	APN, VPDN
PPPOE authentication	CHAP/PAP/MS-CHAP/MS-CHAPV2
VLAN	Support VLAN management
IP Tool	Ping, Traceroute, DHCP Server/ Client, DNS Relay, Dynamic DNS, Telnet, SSH, HTTP, HTTPS, TFTP, FTP, SFTP, NAT

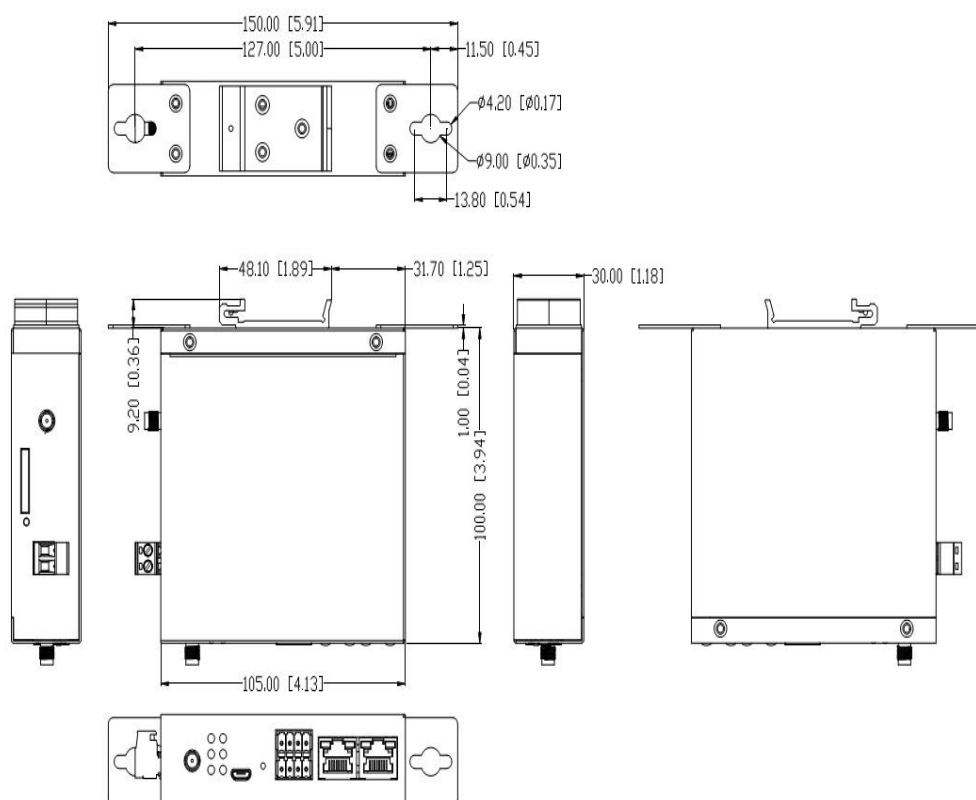
IP Router	Static routing, Dynamic routing
VPN	OpenVPN, IPsec, L2TP/PPTP, N2N, GRE
firewall	Supports NAT, PAT, DMZ, port mapping, IP, port, MAC filtering
link backup	Link switching for cellular networks, Wi Fi, and wired Ethernet
Link detection	TCP/Ping heartbeat detection, VPN link detection, and support for automatic reconnection when disconnected, ensuring that the device is permanently online
QoS	Uplink and downlink Bandwidth throttling
Embedded watchdog	Support self recovery of equipment failures to ensure stable operation of the equipment
DTU	Built in software DTU function, supports Modbus TCP/RTU conversion, and supports 101/104 conversion
WLAN	Supports IEEE 802.11n a/b/g/n 2.4GHz AP, Client working mode Open system, Shared secret, WPA/WPA2 authentication WEP/TKIP/AES encryption Portal Access Authentication
Traffic statistics	Real time traffic, monthly traffic statistics, and traffic limit settings
Scheduled task	Supports setting timed restarts
SNMP	SNMP v1/v2
Management and Maintenance	Web Management Telnet and SSH terminals System status monitoring NTP client, supporting device system clock network synchronization Support the import and export of configuration files Supports local and remote firmware upgrades, saving manpower and resources Network tools: Ping, Tracert Supports Device Manager Cloud, batch operations, and centralized management
Open Platform	Support C/C++ development and achieve customized development for customers
Industrial Protocol	Support Modbus/S7/IEC101/IEC103/DLT645 etc



## Product appearance



## Product size



WxDxH=30x100x105mm

## Accessories List

---

- 1) 1 x G9306 series 4G industrial gateway
- 2) 1 x Certificate of Conformity
- 3) 1 x instruction CD
- 4) 2 x 1x4Pin 3.5 plug-in terminal blocks
- 5) 1 x 12V/1A power adapter
- 6) 1 x 4G SMA cellular mesh suction cup antenna
- 7) 1 x WiFi suction cup antenna

## Options Accessories

---

- 1) 1 x 2mm slotted screwdriver
- 2) 2 meter/3 meter 4G SMA cellular network suction cup antenna
- 3) 3m/5m GPS antenna

## Ordering information

Model	Communication type&Module	Serial port type	Wi-Fi	GPS
G9306-FS	FDD-LTE: B1/B3/B5/B8 TDD-LTE: B38/B39/B40/B41	1*RS232/1*R S485/1*RS23 2	Wi-Fi	无
G9306-GS	FDD-LTE: B1/B3/B5/B8 TDD-LTE: B38/B39/B40/B41	1*RS232/1*R S485/1*RS23 2	无	GPS