

Model: EG9450

(Product Name: Edge Computing Gateway)

Datasheet

1. Overview

The EG9450 series is a powerful edge computing gateway with strong edge data acquisition capabilities. It can achieve global remote data collection, support data acquisition of mainstream industrial controllers, and report to cloud servers through dashboard, HMI, bulletin board and other functions for configuration monitoring. The platform includes the bottom-level device connection, data parsing, and upper-level data calculation and analysis. You can obtain common IoT cloud services such as connection, storage, analysis, display, reminder, feedback, etc. without developing any code.

2. Major Functions & Features

Industrial-grade design to meet the needs of industrial users

Designed with NXP industrial-grade ARM chips, suitable for harsh working environments in industrial fields.
 Fanless design, durable and suitable for harsh conditions in industrial sites.
 Protection level reaches IP40, with enclosures and system safety isolation, suitable for industrial control applications.
 Low power consumption, supports wide voltage supply of +9~24VDC, suitable for various on-site power supply methods.

Highly reliable design to ensure stable operation of the equipment

Embedded watchdog technology for fault self-recovery to ensure stable operation of the equipment.
 Multi-level link detection and anti-disconnection mechanism to ensure permanent online status of the equipment.
 External antenna design to enhance wireless signals and ensure stable operation of various on-site networks.

Easy to use and convenient to manage

Supports cellular network, wired and wireless connections.
 Supports upper computer client configuration for easy deployment.
 Supports firmware upgrades to save human and material resources.
 Supports firmware upgrades, device configuration, point configuration, and edge computing editing.

Fully functional, with quick experience of convenient wireless communication

Supports simultaneous access to 4G/LORA, Ethernet wired networks, ensuring faster and more stable network operation.
 Supports a variety of industrial protocols, including Siemens, Omron, Mitsubishi, AB, Delta, Huichuan, Yonghong, Xinjie, Yokogawa and other mainstream PLCs, instruments and meters such as DLT645-2007, DTSU6606, free protocol TCP/UDP, Modbus ASCII, Modbus RTU, Modbus TCP, CNC machine tools, etc.
 Supports Ethernet, RS232, RS485 interface connection to industrial equipment.
 Performs local data parsing and pushes data to cloud servers.
 Supports edge computing, interconnectivity with upper computer software through MQTT, database access.

3. Technical Parameters

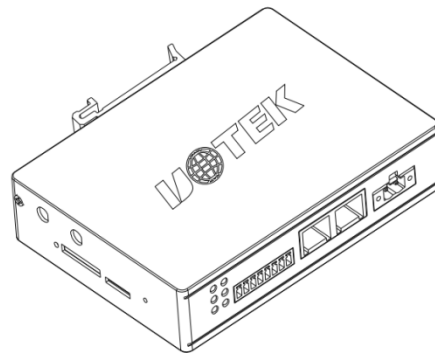
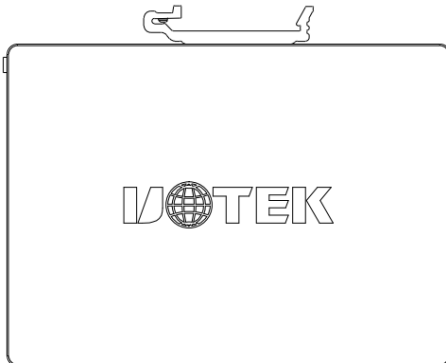
EG9450 series	
	EG9450-FS
Specification Name:	Hardware Specifications:
Network Access	Full Netcom 4G Ethernet LORA (optional)
CPU	NXP IMX6U Cortex-A7 600-800MHz

NAND FLASH	512MB
DRAM Capacity	512MB
Ethernet	2x10M/100Mbit/s Adaptive ports
SD Expansion	1x TF-SD, maximum support 16GB
Industrial Serial Interface	1x RS232 2x RS485
RS232/RS485	LTE FDD: B1/B3/B5/B8 LTE TDD: B38/B39/B40/B41 WCDMA: B1/B8 TD-SCDMA: B34/B39 CDMA: BC0 GSM: 900/1800MHz
4G	<5W
Rated Power	+9V~24VDC
Power Supply Range	With reverse protection and lightning surge protection
Power Protection	Can restore device parameters to factory settings
Reset Button	-40~85°C
Operating Temperature	-45~125°C
Storage Temperature	1% ~ 95% RH (non-condensing)
Environmental Humidity	Natural air cooling
Cooling Method	LxWxH=120mm×92mm×30mm (excluding antenna)
Size	245g
Weight	Aluminum alloy, protection level up to IP40
Enclosure	Rail-mounted
EG9450 series	
	EG9450-FS
Specification Name:	Software Specifications:
Alarm Push	Supports client push, SMS push, WeChat public account push
Data Monitoring	300 points support scheduled upload
Edge Computing	Local calculation
Industrial Protocol	Supports a variety of mainstream industrial protocols, including Siemens, Omron, Mitsubishi, AB, Delta, Huichuan, Yonghong, Xinjie, Yokogawa and other mainstream PLCs; instruments and meters such as DLT645-2007, DTSU6606
Management and Maintenance	Supports firmware upgrades, provides upper computer configuration of equipment, cloud point configuration, edge computing editing.

4. Appearance



5. Structure dimensions



6. Accessories

- 1) 1 x UT EG9450 series edge computing gateway
- 2) 1 x 8Pin 3.5 pluggable terminal block
- 3) 1 x 2Pin 5.08 pluggable terminal block
- 4) 1 x 1.5m 4G SMA suction cup antenna

7. Optional accessories

- 1) 2mm Phillips screwdriver
- 2) 2m/3m 4G SMA cellular suction cup antenna
- 3) 3m/5m GPS antenna
- 4) 12V/1.5A power adapter

5. Orderings

Specifications	Description			
EG9450 series				
Model	<F>Communication type & module	<S>Serial port type	< Ethernet>	<G>GPS
EG9450-FS	LTEFDD:B1/B3/B5/B 8 LTE TDD: B38/B39/B40/B41 WCDMA:B1/B8 TD-SCDMA: 34/B39 CDMA: BC0 GSM: 900/1800MHz	1*RS232/2*RS485	1WAN/1LAN	None
EG9450-GS	LTEFDD:B1/B3/B5/B 8 LTE TDD: B38/B39/B40/B41 WCDMA:B1/B8 TD-SCDMA: 34/B39 CDMA: BC0 GSM: 900/1800MHz	1*RS232/2*RS485	1WAN/1LAN	GPS
EG9450-S	None	1*RS232/2*RS485	1WAN/1LAN	None