KGW3204A-4G
High-performance industrial 4G gateway

KYLAND

⟫ Overview

Kyland KGW3204A-4G is a high-performance industrial 4G gateway product. It can be deployed in industrial networks as an intelligent communication node. The product has data acquisition, protocol conversion functions, and supports 3G/4G/Ethernet/serial data transmission functions. As a distributed device, it is able to connected to various industrial scenarios.

KGW3204A-4G series high-performance industrial 4G gateway supports TCP, UDP, HTTP, ARP, ICMP, LLDP, SNMP, FTP, TFTP, Syslog, SMTP, DNS, DHCP and other network protocols; the device can support TCP Server, TCP Client, UDP and other working modes; you can manage and configure the device through the Web or a specified configuration tool based on the Windows platform, which is convenient for users to view and manage device information after logging in.

⟫ Key Features

- Provide 2 Ethernet interfaces, 2 RS-485, 2 RS-232 serial ports
- Support 4G wireless transmission
- Support dual network port bridging cascading, dual network port independent can be configured with different network segment IP
- Support socket operation mode, including TCP server, TCP client and UDP
- Support IEC61850 server/client protocol
- Support Web and specialized debugging and management tool KyPMT
- Support alarm function and reset function
- 2kv isolation protection for the serial port 1.5kv isolation protection for Ethernet ports
- IP40 protection class and EMC3
- Metal housing, wide temperature operation(-40℃~+75℃)

⟫ Product Specifications

>Technical Specifications
-Ethernet Interface

Ethernet port number: 2

Speed: 10/100 Mbps, Auto MDI/MDIX

Connector: RJ45

-Serial Interface

Serial port number: 2×RS-232, 2×RS-232/422/485

Connector: 2-pin terminal block

Isolation Protection: 2kv(build-in)

DIP switch: enable/disable the 120 Ω terminal resistor of RS-485

-GPRS/3G/4G

Network standard and frequency band

LTE FDD: B1/B3/B5/B8

LTE TDD: B38/B39/B40/B41

WCDMA: B1/B8

TD-WCDMA: B34/B39

CDMA: BC0

GSM: 900/1800MHz

-Serial Communication Parameters

Operation mode: TCP Client, TCP Server, UDP

Baud rate: 4800bps～115200bps

Data bit: 5、6、7、8

Stop bit: 1、2

Check digits: None、Even、Odd

-Switch

Support dual network port bridging cascading, dual network port independent can be configured with different network segment IP.

-Route

Support static routing

-Security function

SSH, SSL

MAC address binding

User classification

-Equipment management

Web management(HTTP/HTTPS)

KyCMT(device search, IP address configuration and other functions)

ICMP

SNMP v2c SNMP trap

ARP

DNS

DHCP Client

-Equipment maintenance function

Upgrading through web

FTP, TFTP and syslog

SMTP mail alert

Equipment alarm indicator

Automatic reconnection after disconnection

-Clock characteristics

NTP client

-LED indicators

System: Run

Signal: 4G

Tx/Rx LED: Serial port transmit /Receive data

Port LED: Link/Act

-Physical Characteristic

Enclosure: SECC electrolytic galvanized steel sheet

Dimension(mm): 160×94×31

Protection Class: IP40

Cooling: Natural cooling, fanless

Installation method: DIN rail

-Environmental feature

Operating temperature: -40℃～75℃

Storage temperature: -40℃～85℃

Ambient Relative humidity: 5～95%, no condensation Heat dissipation mode: natural cooling

MTBF: >30000h

Warranty: 5 Years

-Power requirements

Input voltage: 24V DC(12-48VDC)

Power Consumption: <5W

Access terminal: 2-core plug-in terminal

Reverse protection: Support

Overload protection: Support

Power failure alarm: Support

-Industrial standards

EMI

FCC CFR47 Part 15,

EN55022/CISPR22,ClassA

EMS

IEC61000-4-2(ESD) ±6kV(contact),±8kV(air)

IEC61000-4-3(RS) 10V/m(80MHz~2GHz)

IEC61000-4-4(EFT) Power Port:±2kV;Data Port:±1kV

IEC61000-4-5(Surge) Power Port:±1kV/DM,±2kV/CM; Data Port:±1kV

IEC61000-4-6(CS) 10V(150kHz~80MHz)

IEC61000-4-8 100A/m(cont.),1000A/m(1s-3s)

IEC61000-4-9 1000A/m

IEC61000-4-10 100A/m

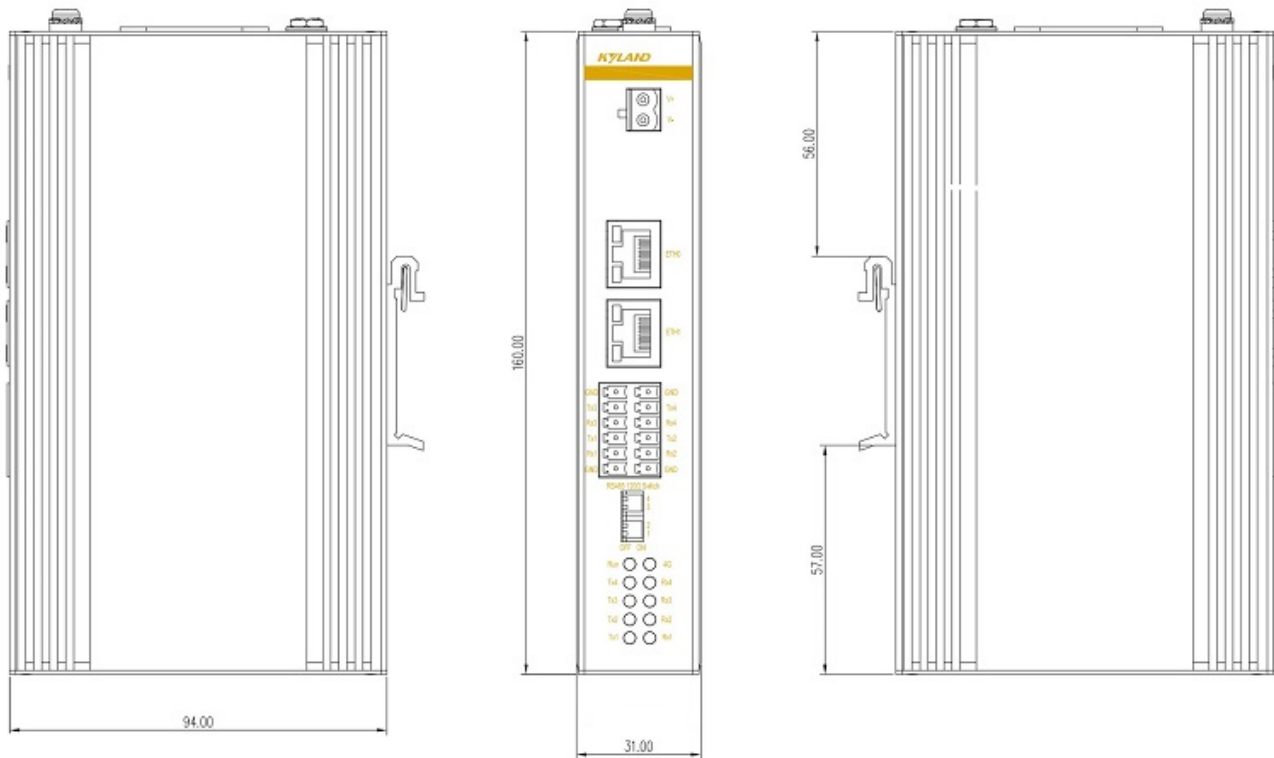IEC61000-4-12 2kV/CM,1kV/DM

IEC61000-4-16 30V(cont.),300V(1s)

Machinery

IEC60068-2-6(vibration)

IEC60068-2-27(shock)

IEC60068-2-32(free fall)

≫ Mechanical Drawing

Ordering Information

Product selection table

Model	Ethernet Ports	RS232	RS485	Power	Dimension(mm)
KGW3204A-4G	2	2	2	12-48VDC	160×94×31

Driver system

Model	Driver package content
KGW-IE1(Default driver)	Modbus RTU, Modbus TCP, OPC UA server/client, DNP 3.0, DLT_645 2007, DLT_645 1997, IEC-60870-101, IEC-60870-103, IEC-60870-104, S7, IEC61850 MMS Client/Server

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