

KGW3102A/3204A/3208A

Industrial intelligent Gateway



» Overview

KGW-A series is a new generation of economical intelligent protocol gateway products. It can be deployed in industrial networks as an intelligent communication node. into the ethernet network.

KGW-A supports TCP, UDP, HTTP, ARP, ICMP, LLDP, SNMP, FTP, TFTP , Syslog , SMTP , DNS, DHCP and several network protocols; Users can manage and configure the device through the web or a specified configuration tool based on the Windows platform.

» Key Features

- Provide 1 or 2 Ethernet ports; 2, 4, 8 RS-232/485 serial ports
- Support dual network port bridging and cascading, dual network port can be configured with different network segment.
- Support card rail, wall-mounted two installation methods
- Support socket operation mode, including TCP Server, TCP Client and UDP, etc.
- Support data transparent transmission mode and conversion of various common protocols

- Support Web and KyPMT two device access configuration forms
- Support alarm and one-key recovery function
- Serial port supports 2kV isolation protection
- The whole machine has IP40 protection grade, EMC3 electromagnetic protection
- Metal body, wide temperature operation (-40°C~+75°C)
- CE, FCC

Product Specifications

>Technical Specifications

-Ethernet Interface

KGFW3102A: 1

KGW3204A: 2

KGW3208A: 2

Speed: 10/100 Mbps, Auto MDI/MDIX

Connector: RJ45

-Serial Interface

KGW3102A: 2

KGW3204A: 4

KGW3208A: 8

Serial Standard: RS-232,RS-485 optional

Connector: 2-pin terminal block

Isolation Protection: 2kv(build-in)

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

-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: Power, Run

Alarm LED: ALARM

Reset LED: Reset

Tx/Rx LED: Serial port transmit/Receive data

Port LED: Link/Act

-Physical Characteristic

Enclosure: SECC electrolytic galvanized steel sheet

Dimension(mm):

KGW3102A: 123×90×30

KGW3204A: 150×92×30

KGW3208A: 177×100×44

Protection Class: IP40

Cooling: Natural cooling, fanless

Installation method: DIN rail type and wall-mounted type

-Environmental feature

Operating temperature: -40°C ~ 75°C

Storage temperature: -40°C ~ 85°C

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

MTBF: >30000h

Warranty: 5 Years

-Power requirements

Input voltage: 24V DC (12-36VDC)

Power Consumption: <2W

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)

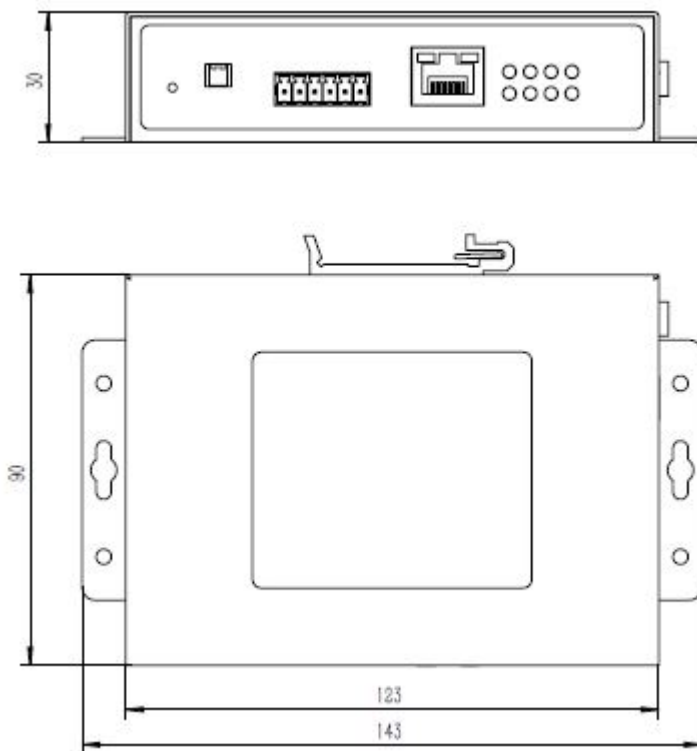
IEC60068-2-27(shock)

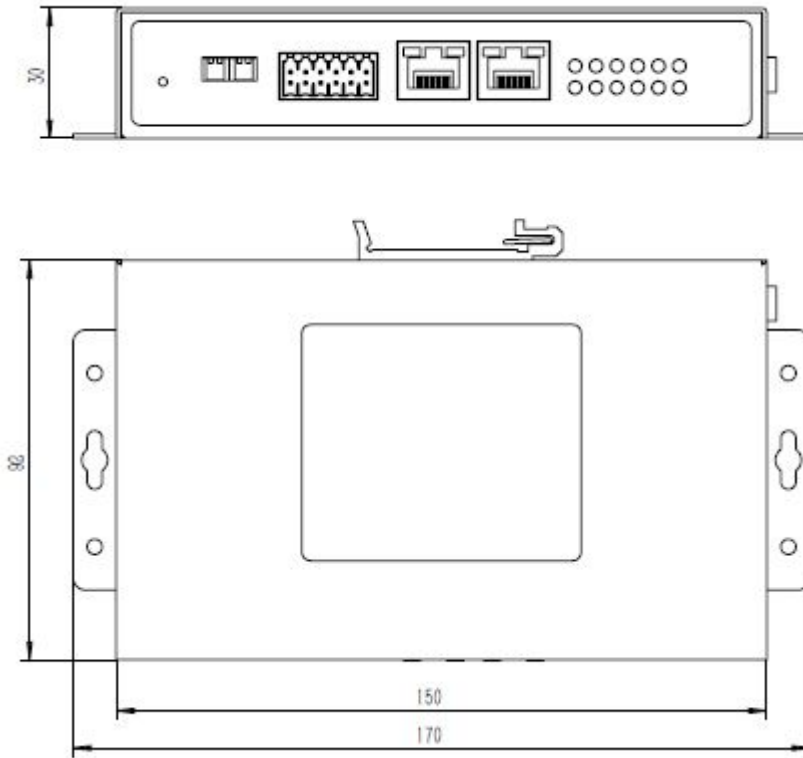
IEC60068-2-32(free fall)

» Mechanical Drawing

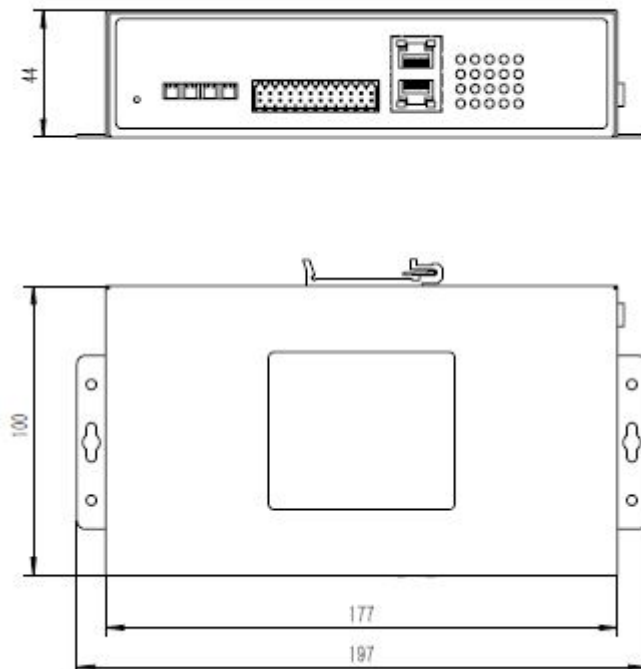
KGW3102A

KGW3204A





KGW3208A



Ordering Information

Product selection table

Models	Ethernet Ports	RS232	RS485	Power	Dimension(mm)
KGW3102A-E-1T2D-232-L17	1	2	-	12-48VDC	123×90×30
KGW3102A-E-1T2D-485-L17	1	-	2	12-48VDC	123×90×30
KGW3204A-E-2T4D-232-L17	2	4	-	12-48VDC	150×92×30
KGW3204A-E-2T4D-485-L17	2	-	4	12-48VDC	150×92×30
KGW3208A-E-2T8D-232-L17	2	8	-	12-48VDC	177×100×44
KGW3208A-E-2T8D-485-L17	2	-	8	12-48VDC	177×100×44

Driver system

Model	Driver package content
KGW-IE0(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

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