KGW3224A

1U Rack Mount Industrial intelligent Gateway

Overview

Kyland KGW3224A is an 1U rack-mount industrial intelligent Gateway. It can be deployed in industrial networks as an intelligent communication node into the Ethernet network.

Kyland KGW3224A 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 2 Ethernet interfaces, 8 RS232, 16 RS485 or 8 RS422 serial ports
- Support dual power redundant power supply
- 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 application
- 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°C~+75°C)

Product Specifications

>Technical Specifications

-Ethernet Interface

Ethernet port number: 2

Speed: 10/100 Mbps, Auto MDI/MDIX

Connector: RJ45

-Serial Interface

Serial port number: 8×RS232, 16×RS485 or 8×RS422(Configure by software)

Connector: 2-pin terminal block

Isolation Protection: 2kv(build-in)

DIP switch: enable/disable the 120Ω terminal resistor of RS485

-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): 483×200×44

Protection Class: IP40

Cooling: Natural cooling, fanless

Installation method: DIN rail type and wall-mounted type

-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: 220VAC(85~265VAC) dual power optional

Power Consumption: <8W

Access terminal: 5-pin 5.08 mm-spacing plug-in terminal block

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)

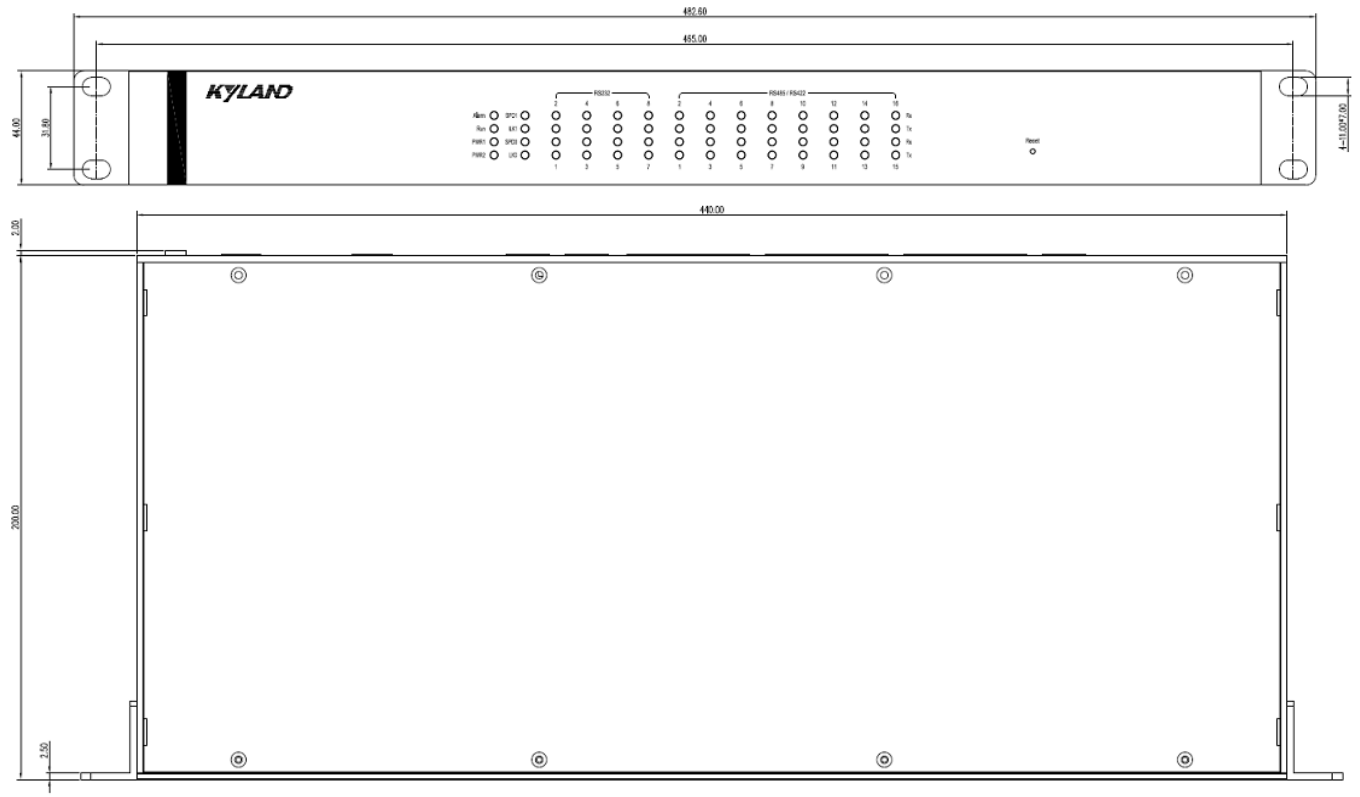
Machinery

IEC60068-2-6(vibration)

IEC60068-2-27(shock)

IEC60068-2-32(free fall)

Mechanical Drawing



Ordering Information

Models	Ethernet Ports	RS232	RS485/ RS422	Power	Dimension(mm)
KGW3224A-2T16D-232/485-HV	2	8	16/8	85~265VAC	483×200×44
KGW3224A-2T16D-232/485-HV-HV	2	8	16/8	85~265VAC(Dual)	483×200×44

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, IEC61850 MMS Client/Server

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