

# KPS3101A/3102A/3204A/3208A

## 1, 2, 4, 8- Serial port High-performance Serial Device Servers



### » Overview

KPS3101A, KPS3102A, KPS3204A, KPS3208A Serial Device Server supports 1 or 2 Ethernet port and 1, 2, 4, or 8 RS-232 /422/485 ports, which provides serial-to-Ethernet connectivity for industrial applications. KPS3X0XA series supports socket operation mode, including TCP Server, TCP Client and UDP, provides 12-48 VDC redundant power inputs. KPS3X0XA series support one-key recovery, and can send alarm message by the SMTP mail, to ensure that network problems can be found in time; at the same time, the device also supports SSH, SSL, MAC address filtering, user classification, AES/DES/3DES and other security functions, to protect the network security and stability. KPS3X0XA series has DIP switches, DIP switch can be achieved RS485 serial terminal matching resistor enable and disable, It can guarantee the stability and reliability of RS485 serial communication. KPS3101A&KPS3102A&KPS3204A &KPS3208A can be widely applied in all kinds of applications in factory automation and industrial segments.

### » Key Features

- 1 or 2 Ethernet port and 1, 2, 4, or 8 RS-232/422/485 ports
- Supports socket operation modes, including TCP Server, TCP Client and UDP
- Supports one-key recovery
- Build-in 2KV serial Isolation protection
- IP40 protection class
- Metal housing with wide temperature rating (-40 to +75°C)
- Certificates : CE, FCC (PENDING)

**» Product Specifications****> Technical Specification****-Ethernet Interface**

Number of ports:

KPS3101A/KPS3102A: 1

KPS3204A/KPS3208A: 2

Speed: 10/100 Mbps, RJ45 port

**-Serial Interface**

Number of ports:

KPS3101A: 1

KPS3102A: 2

KPS3204A: 4

KPS3208A: 8

Serial Standards: RS-232/422/485, software selectable

Connector: DB9 male

Isolation Protection: 2 kV (build-in)

DIP-Switch: Enable/Disable 120Ω matching resistor for RS485

**-Serial Communication Parameters**

Data Bits: 5, 6, 7 or 8

Stop Bits: 1, 2

Parity: None, Even, Odd

Baudrate: 1200bps to 230.4kbps

**-Software Functions**

Security Protocols : HTTPS, SSH2, MAC address filter, AES, DES, 3DES

Support SNMP v1/v2c, SMTP, DHCP, DNS, FTP protocols

**-LED**

Reset LED: Reset

Power LED: Power

Run LED: Run

Alarm LED: Alarm

Tx/Rx LED: Serial port transmit /Receive data

**-Button**

Reset: Supports "reset to factory default settings"

**-Power Requirements**

Input voltage : 12 to 48 VDC

Power plug: 5-pin terminal block

Power Consumption:

KPS310A/3102A/3204A: 3W

KPS3208A: 5W

Overload protection: Support

Reverse protection: Support

Redundancy protection: Support

**-Physical Characteristics**

Housing: Metal

Dimension:

KPS3101A: 31×105×77 mm ( W×H×D )

KPS3102A: 40×105×77 mm ( W×H×D )

KPS3204A: 40×137×86 mm ( W×H×D )

KPS3208A: 40x200x104 mm ( W×H×D )

Protection level: IP40

Installation: DIN-rail or Wall mount

**-Environmental Limits**

Operating temperature: -40 to 75°C

Storage temperature: -40 to 85°C

Operating humidity: 5 to 95%, no condensation

**-Quality Assurance**

Warranty: 5 years

**-Approvals**

CE, FCC (PENDING)

**-Industrial Standard**

EMI:

FCC CFR47 Part15, EN55022/CISPR22,ClassA

EMS:

EN 55024

IEC61000-4-2(ESD):  $\pm 6\text{kV}$ (contact),  $\pm 8\text{kV}$ (air)IEC 61000-4-3(RS):  $10\text{V/m}$  (80MHz–2GHz)IEC61000-4-4(EFT): Power Port: $\pm 2\text{kV}$ ;Data Port: $\pm 1\text{kV}$ IEC61000-4-5(Surge): PowerPort:  $\pm 1\text{kV/DM}$ ,  $\pm 2\text{kV/CM}$ ; Data Port: $\pm 1\text{kV}$ IEC 61000-4-6(CS):  $10\text{V}$ (150KHz-80MHz)

Machinery:

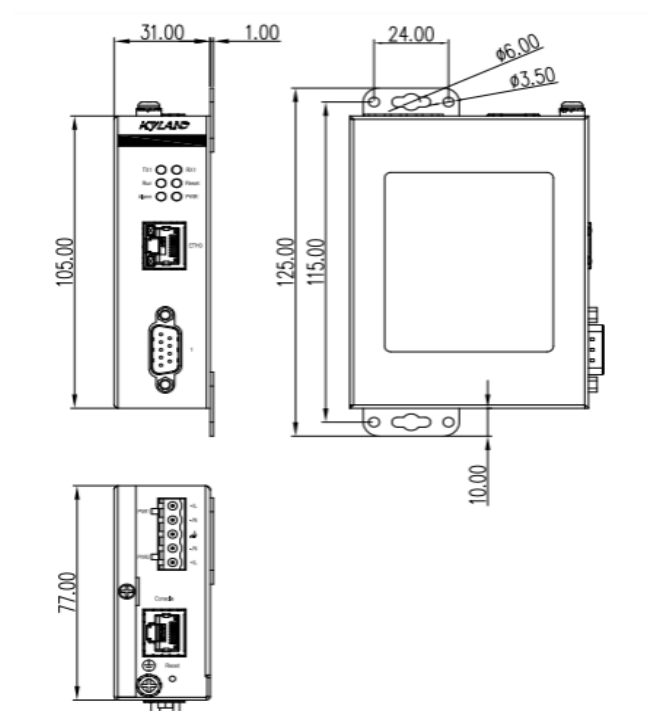
IEC60068-2-6(Vibration)

IEC60068-2-27(Shock)

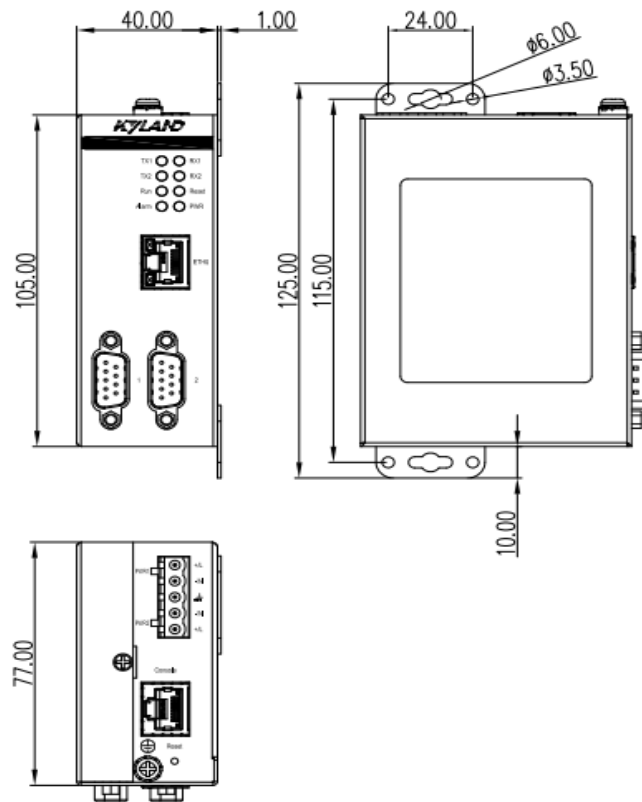
IEC60068-2-32(Free Fall)

**» Mechanical Drawing**

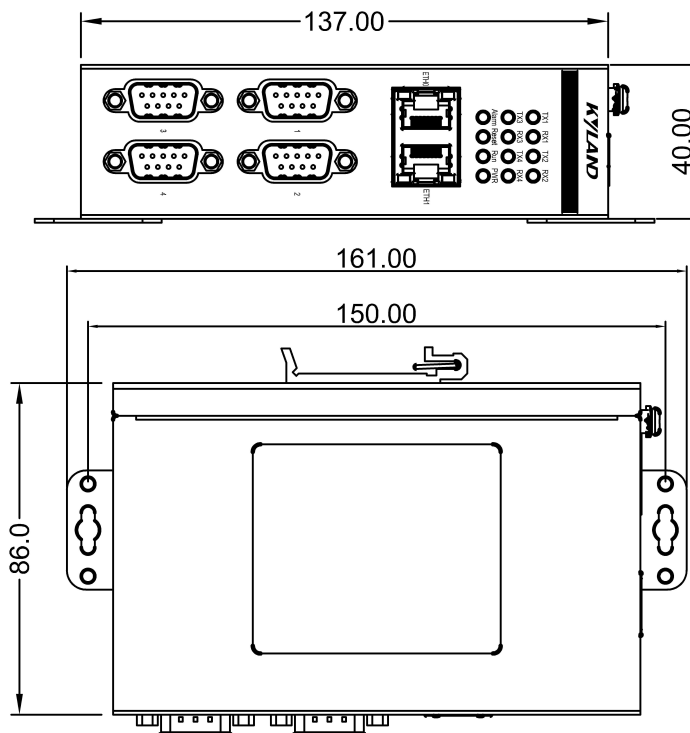
KPS3101A



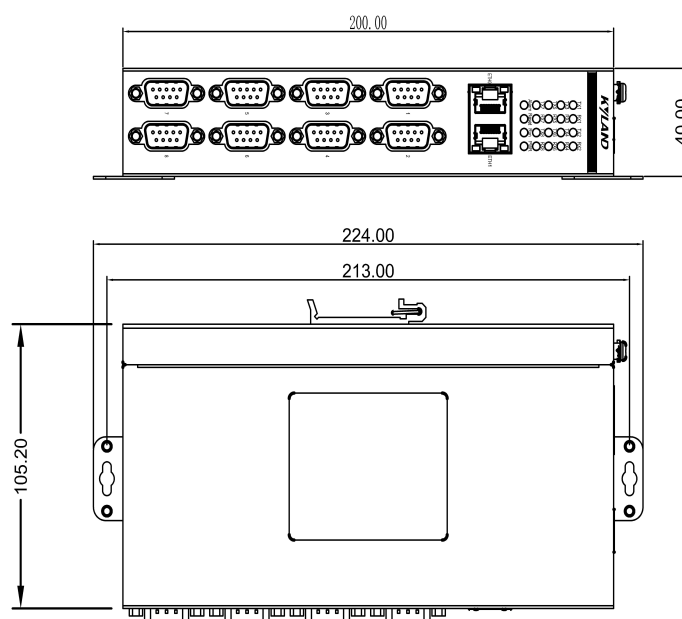
**KPS3102A**



**KPS3204A**



**KPS3208A**



## Ordering Information

### Available Models

KPS3101A-1T1D-232/485/422-L17-L17: 1-port Serial Device Servers

KPS3102A-1T2D-232/485/422-L17-L17: 2-port Serial Device Servers

KPS3204A-2T4D-232/485/422-L17-L17: 4-port Serial Device Servers

KPS3208A-2T8D-232/485/422-L17-L17: 8-port Serial Device Servers

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