

# KPS2204

## 6 Port Managed Din-Rail Programmable Serial Device Servers



### » Overview

KPS2204 is a programmable serial server for the network applications of serial devices. KPS2204 combines Ethernet and serial data communication, and offers protocol transition between Ethernet and serial protocol. It supports secondary development on Linux system, and reserved programmable push switch, level detection terminal, programmable LED Indicators for the user's secondary development.

KPS2204 supports 2 10/100Base-T(X) copper ports and 4 RS232/RS422/RS485 serial ports. It provides 18-36VDC or 36-72VDC redundant power inputs, supports DIN-Rail mounting or Panel mounting, supports IP40 protection class, and supports Telnet and WEB management methods. KPS2204 is specially designed for harsh and dangerous industrial environments. It has EMC protection properties for power supply over current or over voltage, EMC protection properties for RJ45 ports and RS232/422/485 serial ports.

### » Key Features

2 10/100Base-T(X) RJ45 ports and 4 RS232/422/485 serial ports

Supports Reset button

Serial ports have 15KV ESD protection circuit

Supports secondary development on Linux system

Interfaces and power cable offer surge protection

EMC performance reaches industrial level 4

IP40 protection class

## **Product Specifications**

### **>Software Functions**

#### **-Network Security**

Supports SSH

#### **-Management & Maintenance**

Supports Telnet and WEB management methods

Supports FTP software upgrade

Supports LLDP

#### **-Clock Management**

Supports SNTP Client

### **>Product Specifications**

#### **-Standard**

IEEE 802.3i(10Base-T)

IEEE 802.3u(100Base-TX and 100Base-FX)

IEEE 802.3x (flow control)

#### **-Interface**

Fast Ethernet Ports: 10/100Base-T(X) RJ45 port

Serial Ports:

Quantity of serial ports: 4 RS232/RS485/RS422

Electrical characteristic: compliant with 3-wire RS232, 4-wire RS422 and 2-wire RS485 standards

Physical interface: DB9, male

Bit error rate of data transmission:  $\leq 10^{-10}$

Baud rate: 50bps-230400bps (Default: 9600)

Transmission Distance: RS232: 15m, RS422/RS485: 1200m

Data bits: 5, 6, 7, 8 (Default: 8)

Stop bits: 1, 2 (Default: 1)

Parity bit: None, Even, Odd, Space, Mark (Default: None)

Flow control: XON/XOFF (Default: XOFF)

**-LED**

Indicators in the front panel

Running LED: Run

Power LED: PWR1, PWR2

Interface LED: Link, ACT (RJ45 Ports); T1-T4, R1-R4 (Serial Ports)

**-Button**

Reset: Reset configuration

Default: Load default configuration

**-Power Requirements**

Power Input:

48VDC(36-72VDC)

24VDC(18-36VDC)

Power Terminal:

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

Power Consumption <5w

Overload Protection: Support

Reverse Connection Protection: Support

Redundancy Protection: Support

**-Physical Characteristics**

Housing: Metal

Heat Dissipation Mode: Natural cooling, without fans

Protection Class: IP40

Dimensions: 55.4mm×139mm×119.5 mm (W×H×D)

Weight: 0.5kg

Mounting: DIN-Rail or Panel mounting

**-Environmental Limits**

Operating Temperature: -40°C to +85°C

Storage Temperature: -40°C to +85°C

Ambient Relative Humidity: 5-95% (non-condensing)

**-Quality Assurance**

MTBF: 333,755 hrs

Warranty: 5 years

**-Industry Standard**

EMI:

FCC CFR47 Part 15,EN55022/CISPR22,Class A

EMS:

IEC61000-4-2(ESD)  $\pm 8\text{kV}$ (contact), $\pm 15\text{kV}$ (air)

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

IEC61000-4-4(EFT) Power Port: $\pm 4\text{kV}$ ;Data Port: $\pm 2\text{kV}$

IEC61000-4-5(Surge) Power Port: $\pm 2\text{kV}/\text{DM}$ , $\pm 4\text{kV}/\text{CM}$ ;Data Port: $\pm 2\text{kV}$

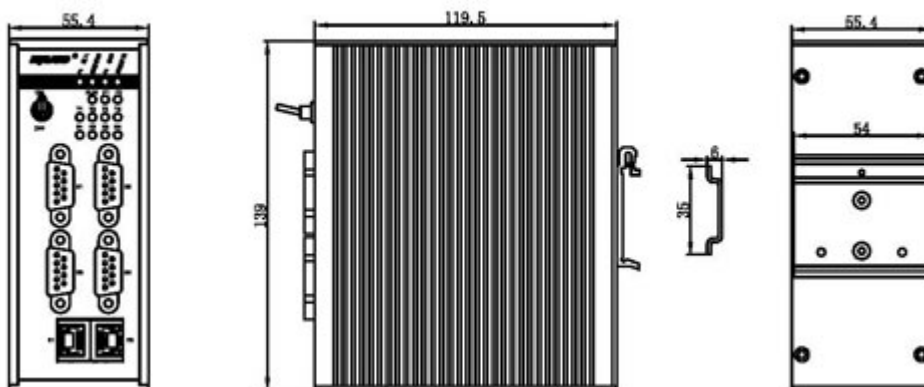
IEC61000-4-6(CS) 3V(10kHz-150kHz);10V(150kHz-80MHz)

Mechanical standards:

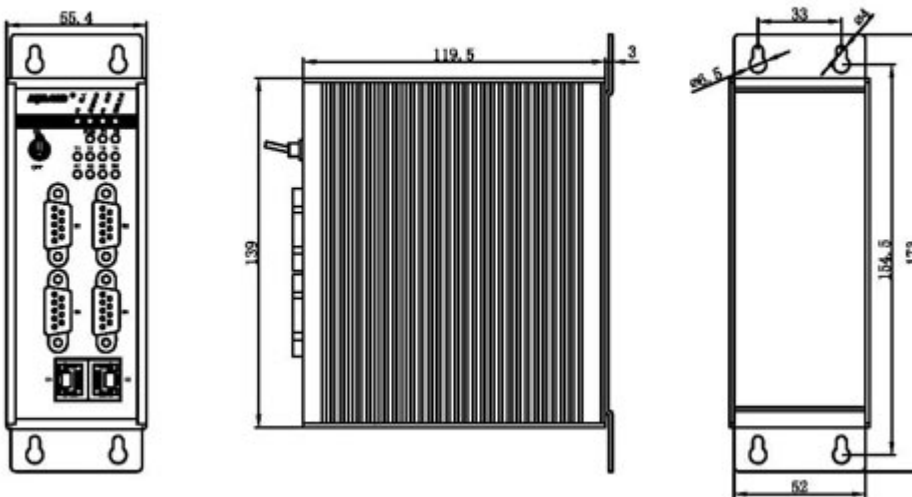
IEC60068-2-6 (Vibration),

IEC60068-2-27 (Shock),

IEC60068-2-32 (Free Fall)

**» Mechanical Drawing****DIN Rail Mounting**

## Panel Mounting



## Ordering Information

### KPS2204-Ports-PS1-PS2

#### Ports

2T4D 2 × 10/100Base-T(X) RJ45 ports, 4 × RS232/RS422/RS485 serial ports

#### PS1-PS2

L1-L1 48VDC(36-72VDC), redundant power inputs

L3-L3 24VDC(18-36VDC), redundant power inputs

#### Accessories

DT-BGAZ-04 Panel for panel mounting

DT-FCZ-RJ45-01 Dustproof cover for RJ45 port

Version:2018-02-12 10:41:41