

KPS2204



6 Port Managed Din-Rail Programmable Serial Device Server

- 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

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.

Software Functions

Security technology

Supports SSH

Management & Maintenance

Supports Telnet and WEB management methods
Supports FTP software upgrade
Supports LLDP

Clock Management

Supports SNTP Client

Product Specifications

Technical Specifications

Standards

- ▼ 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: ≤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)

Buttons

- ▼ Reset: Reset configuration
- ▼ Default: Load default configuration

Power Requirements

Power Input	24DC(18-36VDC), 48DC(36-72VDC)
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 (2.18 in×5.47 in×4.70 in) (W×H×D)	
Weight	0.5kg (1.102 lb)
Mounting	
▼ DIN-Rail mounting or Panel mounting	

Environmental Limits

Operating Temperature	-40°C +85°C(-40 to 185°F)
Storage Temperature	-40°C +85°C(-40 to 185°F)

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

Quality Assurance

MTBF	333,755 hrs
Warranty period	5 years

Approvals

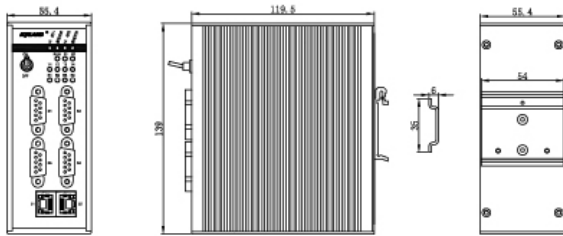
For the latest dynamics of the product, visit the website of Kyland.

Industrial Standards

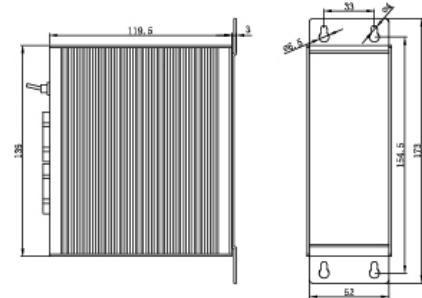
- EMI
- ▼ FCC CFR47 Part 15,EN55022/CISPR22,Class A
- EMS
- ▼ IEC61000-4-2(ESD) ±8kV(contact),±15kV(air)
 - ▼ IEC61000-4-3(RS) 10V/m(80MHz-2GHz)
 - ▼ IEC61000-4-4(EFT) Power Port:±4kV;Data Port:±2kV
 - ▼ IEC61000-4-5(Surge) Power Port:±2kV/DM,±4kV/CM;Data Port:±2kV
 - ▼ IEC61000-4-6(CS) 3V(10kHz-150kHz);10V(150kHz-80MHz)
- Mechanical standards
- ▼ IEC60068-2-6 (Vibration),
 - ▼ IEC60068-2-27 (Shock),
 - ▼ IEC60068-2-32 (Free Fall)

Module adaptive table

Din Rail Mounting



Panel Mounting



Ordering Information

KPS2204-Ports-PS

Ports

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

PS

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

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

Accessories

Accessory model

Description

DT-BGAZ-04	Panel for panel mounting
DT-FCZ-RJ45-01	Dustproof cover for RJ45 port