# **KOM200**



# Din-Rail Serial to Fiber Media Converter

- One fiber port, three types of serial ports (RS232/RS422/ RS485)
- Transparent communication without the need of debugging, plug and play
- Serial ports have 15KV ESD protection circuit
- Serial ports support hot plugging
- Abundant power supply options
- IP30 protection class
- FCC certificates



# >> Overview

KOM200 provides serial to fiber switching for the low-rate signals of RS232, RS485 and RS422. The KOM200 supports 1 fiber port and 3 serial ports. The KOM200 provides 9-36VDC or 85-264VAC/120-300VDC power supply, supports DIN-Rail mounting, supports IP30 protection class. Transparent communication without the need of debugging, plug and play.

# Product Specifications

### **Technical Specifications**

Standards RS232,RS422,RS485

### Interface

SM/MM fiber port, SC/ST/FC connector

- Fiber Ports Serial Ports
- Quantity of serial ports:
- 232/422:1 RS232,1 RS422
- ▼ 485/232:1 RS485,2 RS232
- 485/232A:1 RS485,2 RS232,The 2nd channel of RS232 and the 3rd channel of RS485 are multiplexing
- Electrical characteristic: compliant with RS232/RS422/RS485 standards, RS485 interface can be connected to 32-128 nodes
- Physical interface: 8-pin 3.81mm-spacing terminal block
- ▼ Bit Error Rate: ≤10-10
- Asynchronous rate:
  - \* RS232:50-115200bps;
  - \* RS422/RS485:50-9600bps
- Transmission Distance: RS232: 15m; RS422/RS485: 1200m

## LED Indicators

Indicators in the front panel

- 🔻 Running LED: Run
- Interface LED: Link/ACT(Fiber Ports), 1, 2(Serial Ports)

#### **Power Requirements**

- Power Input
- 12DCW(9-36VDC),
- 24DC(18-36VDC), 220AC/DC(85-264VAC/120-300VDC)
- Power Terminal

3-pin 3.81mm-sapcing plug-in terminal block

Power Consumption	<3W
Overload Protection	Support
Reverse Connection Protection	Support

## **Physical Characteristics**

Housing	Metal	
Heat Dissipation Mode	Natural cooling, without fans	
Protection Class	IP30	
Dimensions		
36mm×100mm×75mm (1.42 in×3.94 in×2.95 in) (W×H×D)		
Weight	0.3kg (0.661 lb)	
Mounting		

DIN-Rail mounting or Panel mounting

## **Environmental Limits**

-40°C-+85°C (-40 -185°F)
-40°C-+85°C (-40 -185°F)
5- 95% (non-condensing)

#### **Quality Assurance**

MTBF Warranty period 1,162,867 hrs 5 years

Industrial Ethernet Solutions

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Optical Fiber Converter

### Approvals

FCC

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

### **Industry Standard**

EMI

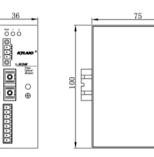
FCC CFR47 Part 15,EN55022/CISPR22,Class A

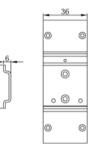
#### EMS

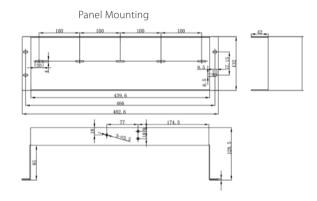
- IEC61000-4-2(ESD) ±6kV(contact),±8kV(air)
- IEC61000-4-3(RS) 10V/m(80MHz-1GHz)
- IEC61000-4-4(EFT) Power Port:±2kV;Data Port:±1kV
- IEC61000-4-5(Surge) Power Port:±1kV/DM,±2kV/CM;Data Port:±1kV
- IEC61000-4-6(CS) 3V(10kHz-150kHz);10V(150kHz-80MHz)
- Mechanical standards
- IEC60068-2-6 (Vibration),
- IEC60068-2-27 (Shock),
- IEC60068-2-32 (Free Fall)

# Mechanical Drawing

Din Rail Mounting







# >> Ordering Information

S1 single mode fiber portM1 multi mode fiber portConnector100M fiber port specificationsSC05SC connector, multi-mode, 1310nm, 5kmST05ST connector, multi-mode, 1310nm, 5kmSC05SC connector, multi-mode, 1310nm, 5kmSC05SC connector, multi-mode, 1310nm, 5kmSC05SC connector, single-mode, 1310nm, 40kmSC40SC connector, single-mode, 1310nm, 40kmSC40ST connector, single-mode, 1310nm, 40kmSC40SC connector, single-mode, 18232 and		
S1 single mode fiber portM1 multi mode fiber portConnector100M fiber port specificationsCC05SC connector, multi-mode, 1310nm, 5kmT05ST connector, multi-mode, 1310nm, 5kmCO5SC connector, multi-mode, 1310nm, 5kmCO5SC connector, multi-mode, 1310nm, 5kmCO4SC connector, single-mode, 1310nm, 40kmCO4SC connector, single-mode, 1310nm, 40kmCO4ST connector, single-mode, 1310nm, 40kmCO4SC connector, single-mode, 1310nm, 40kmCO5SC connector, single-mode, 18485 serial portCO5SC connector, single-mode, 18485 serial portCO5SC connector, single-mode, 18485 serial portCO5SC connector, single-mode, 18485 serial port <td></td> <td>KOM200-Ports-Connector-Serial-PS</td>		KOM200-Ports-Connector-Serial-PS
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SC40SC connector, single-mode, 1310nm, 40kmST40ST connector, single-mode, 1310nm, 40kmSC40FC connector, single-mode, 1310nm, 40kmSC40FC connector, single-mode, 1310nm, 40kmSerial1 RS232 serial port, 1 RS422 serial port232/4221 RS232 serial port, 1 RS425 serial port285/2322 RS232 serial ports, 1 RS485 serial port285/2322 RS232 serial ports, 1 RS485 serial port (The 2nd channel of RS232 and the 3rd channel of RS485 are multiplexing)PSImage: Serial port (The 2nd channel of RS232 and the 3rd channel of RS485 are multiplexing)324DC(18-36VDC), single power input	ST05	ST connector, multi-mode, 1310nm, 5km
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FC connector, single-mode, 1310nm, 40kmSerial232/4221 RS232 serial port, 1 RS422 serial port285/2322 RS232 serial ports, 1 RS485 serial port285/232A2 RS232 serial ports, 1 RS485 serial port (The 2nd channel of RS232 and the 3rd channel of RS485 are multiplexing)PS11220AC/DC(85-264VAC/120-300VDC), single power input.32 4DC(18-36VDC), single power input	SC40	SC connector, single-mode, 1310nm, 40km
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PS 11 220AC/DC(85-264VAC/120-300VDC), single power input .3 24DC(18-36VDC), single power input	485/232	2 RS232 serial ports, 1 RS485 serial port
11220AC/DC(85-264VAC/120-300VDC), single power input.324DC(18-36VDC), single power input	485/232A	2 RS232 serial ports, 1 RS485 serial port (The 2nd channel of RS232 and the 3rd channel of RS485 are multiplexing)
.3 24DC(18-36VDC), single power input	PS	
	H1	220AC/DC(85-264VAC/120-300VDC), single power input
.5 12DCW(9-36VDC), single power input	L3	24DC(18-36VDC), single power input
	L5	12DCW(9-36VDC), single power input

# >> Accessories

Accessory model	Description
KOMFrm	KOM Panel for rack mounting -482.6mm×132mm×128.5mm