

# KOM200

DIN-Rail serial to fiber media converters



## 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 single power input, supports DIN-Rail mounting, supports IP30 protection class. Transparent communication without the need of debugging, plug and play.

## Key Features

- 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

## Product Specifications

### >Product Specifications -Standard

RS232,RS422,RS485

### -Interface

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

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:  $\leq 10^{-10}$

Asynchronous rate:

RS232: 50-115200bps;

RS422/RS485: 50-9600bps

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

#### **-LED**

Indicators in the front panel

Running LED: Run

Interface LED: Link/ACT(Fiber Ports), 1, 2(Serial Ports)

#### **-Power Requirements**

Power Input:

100-240VAC, 50/60Hz; 220VDC(85-264VAC/120-300VDC)

24VDC(18-36VDC)

12-24VDC(9-36VDC)

Power Terminal:

3-pin 3.81mm-spacing 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(W×H×D)

Weight: 0.3kg

Mounting: DIN-Rail 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: 1,162,867 hrs

Warranty: 5 years

**-Approvals**

FCC: Models with L5:12-24VDC

**-Industry Standard**

EMI:

FCC CFR47 Part 15, EN55022/CISPR22, Class A

EMS:

IEC61000-4-2(ESD)  $\pm 6\text{kV}$ (contact),  $\pm 8\text{kV}$ (air)

IEC61000-4-3(RS)  $10\text{V/m}$ (80MHz-1GHz)

IEC61000-4-4(EFT) Power Port:  $\pm 2\text{kV}$ ; Data Port:  $\pm 1\text{kV}$

IEC61000-4-5(Surge) Power Port:  $\pm 1\text{kV/DM}$ ,  $\pm 2\text{kV/CM}$ ; Data Port:  $\pm 1\text{kV}$

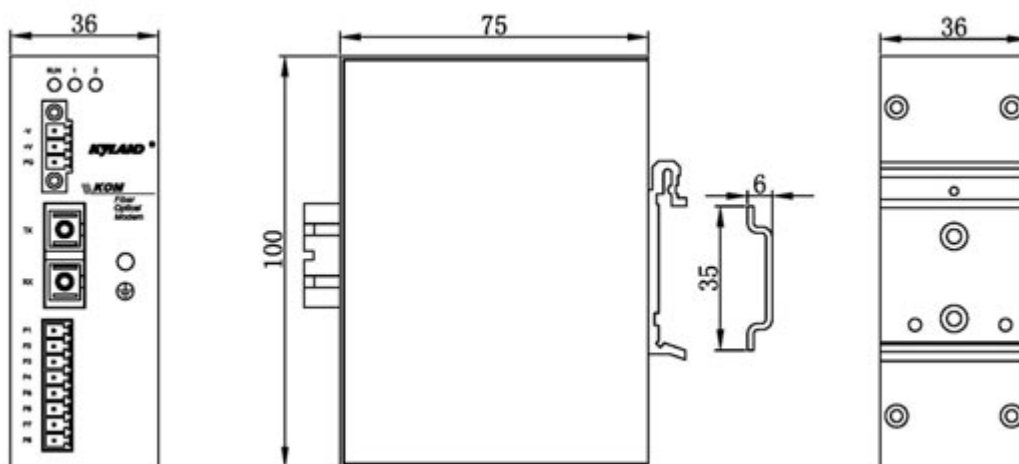
IEC61000-4-6(CS)  $3\text{V}$ (10kHz-150kHz);  $10\text{V}$ (150kHz-80MHz)

Mechanical standards:

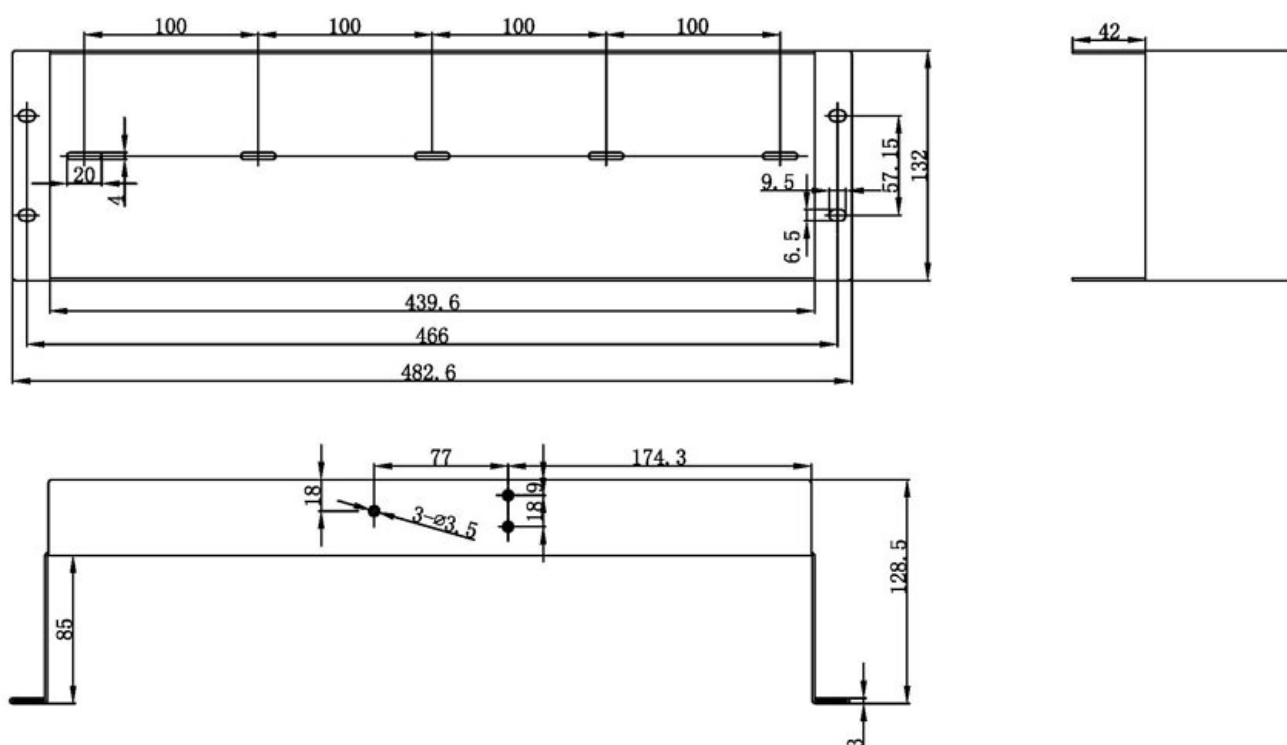
IEC60068-2-6 (Vibration),

IEC60068-2-27 (Shock),

IEC60068-2-32 (Free Fall)

**» Mechanical Drawing**

KOMFrm



## » Ordering Information

### KOM200-Ports-Connector-Serial-PS

#### Ports

1S	1 × single mode fiber port
1M	1 × multi mode fiber port

#### Connector

SC05	SC connector, multi-mode, 1310nm, 5km
ST05	ST connector, multi-mode, 1310nm, 5km
FC05	FC connector, multi-mode, 1310nm, 5km
SC40	SC connector, single-mode, 1310nm, 40km
ST40	ST connector, single-mode, 1310nm, 40km
FC40	FC connector, single-mode, 1310nm, 40km

#### Serial

232/422	1 RS232 serial port, 1 RS422 serial port
485/232	2 RS232 serial ports, 1 RS485 serial port
485/232A	2 RS232 serial ports, 1 RS485 serial port (The 2nd channel of RS232 and the 3rd channel of RS485 are multiplexing)

#### PS

H1	100-240VAC, 50/60Hz; 220VDC (85-264VAC/120-300VDC), single power input
L3	24VDC (18-36VDC), single power input
L5	12-24VDC (9-36VDC), single power input

#### Accessories

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