KOM600

2 Port Unmanaged Din-Rail Copper to Fiber LFP Media Converter

- Green Ethernet solution with ultra low power consumption design
- As low as 2 watts full load power consumption
- 1 10/100Base-TX port, 1 100Base-FX port
- Supports LFP (Link Fault Pass-Through)
- Redundant AC/DC power inputs with wide voltage range
- EMC performance reaches industrial level 4
- IP40 protection class
- UL508 , Class 1 Div 2 , CE, FCC certificates

Overview

The KOM600 is a new member of Kyland ultra low power consumption Green Ethernet series, its full load power consumption is as low as 2 watts. The KOM600 industrial media convertor has 1 100Base-FX fiber port and 1 10/100Base-TX copper port. It supports wide operating temperature range from -40 to 85°C.

The KOM600 series provide 24DCW (18-72VDC) redundant power inputs and support IP40 protection class and EMC industrial level 4 requirements. These media convertors are specially designed for harsh industrial environments certified by UL508 and UL Class I Div 2 certifications.

Technical Specifications

Standard
IEEE 802.3i
IEEE 802.3u
IEEE 802.3ab
IEEE802.3z

Interface
Fast Ethernet Fiber Port: 1 100Base-FX, SM/MM port, FC/SC/ST connector
Fast Ethernet RJ45 Port: 1 10/100Base-TX RJ45 port

LED
LEDs on Front Panel:
Power LED: PWR1, PWR2
Interface LED: Link/ACT, Speed (RJ45 port)

Transmission Distance
Twisted Pair:
100m (Standard CAT5, CAT5e network cable)
Multi Mode Fiber:
1310nm, 5km (100M)
Single Mode Fiber:
1310nm, 40km/60km (100M)
1550nm, 60km/80km (100M)

Power Requirements
Power Input:
24DCW (18-72VDC)
Power Terminal:
5-pin 5.08mm-spacing plug-in terminal block
Power Consumption: 2W (full load)

Overload Protection: Support
Reverse Connection Protection: Support
Redundancy Protection: Support

Physical Characteristics
Housing: Metal, fanless
Protection Class: IP40
Dimensions (W×H×D):
30×115×91.5 mm (1.18×4.53×3.60 in.)
Weight: 0.46kg (1.014 pound)
Mounting: DIN-Rail or Panel mounting

Environmental Limits
Operating Temperature: -40 to 85°C (-40 to 185°F)
Storage Temperature: -40 to 85°C (-40 to 185°F)
Ambient Relative Humidity: 5 to 95% (non-condensing)

MTBF
546,000 hrs

Warranty
5 years

Approvals
UL508 , Class 1 Div 2 , CE, FCC

Industrial Standard
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)
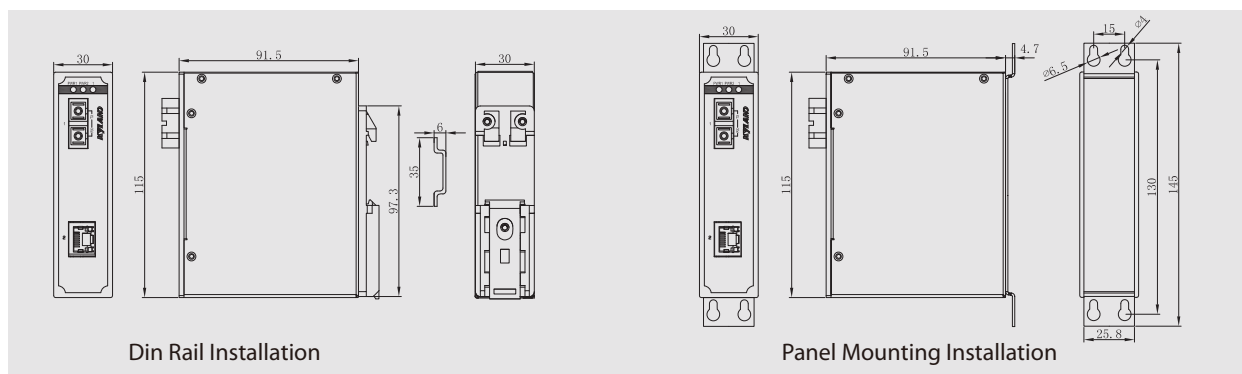IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)

Machinery:
IEC60068-2-6 (Vibration)
IEC60068-2-27 (Shock)
IEC60068-2-32 (Free Fall)

Industry: IEC61000-6-2
Railway: EN50155, EN50121-4
Traffic: NEMA TS-2

Mechanical Drawing

Din Rail Installation

Panel Mounting Installation

Ordering Information

KOM600 - _____ - _____ - _____
            Ports   Connector & Distance   PS

Ports
1M1T = 1 100Base-FX multi mode ports, 1 10/100Base-TX ports
1S1T = 1 100Base-FX single mode ports, 1 10/100Base-TX ports

Connector & Distance
SC05 = SC connector, 1310nm, 5km
ST05 = ST connector, 1310nm, 5km
FC05 = FC connector, 1310nm, 5km
SC40 = SC connector, 1310nm, 40km

ST40 = ST Connector, 1310nm, 40km
FC40 = FC Connector, 1310nm, 40km
SC60 = SC Connector, 1310nm, 60km
SC80 = SC connector, 1550nm, 80km

PS: Power Supply
L2-L2 = 18-72VDC, dual redundant power inputs

Example Order Codes
KOM600-1M1T-SC05-L2-L2
1 100Base-FX multi mode fiber ports, 1310nm, 5km, SC connectors, and 1
10/100Base-TX copper ports, 18-72VDC, dual redundant power inputs