

KOM300M

3 Port Managed Din-Rail Copper to Fiber Media Converter



- Green Ethernet solution with ultra low power consumption design
- As low as 2.7 watts full load power consumption
- 2 10/100Base-TX ports and 1 100Base-FX port
- Supports remote monitoring of device status
- Redundant AC/DC power inputs with wide voltage range
- EMC performance reaches industrial level 4
- IP40 protection class
- UL508 (pending), Class 1 Div 2 (pending), CE, FCC certificates



Overview

The KOM300M is a new member of Kyland ultra low power consumption Green Ethernet series, its full load power consumption is as low as 2.7 watts. The KOM300M industrial media converter has 1 100Base-FX fiber port and 2 10/100Base-TX copper ports. It supports Telnet, WEB, Kyvision management and works in wide operating temperature range from -40 to 85°C.

The KOM300M series provide 9-36VDC, 18-72VDC/13-50VAC redundant power inputs and support IP40 protection class and EMC industrial level 4 requirements. These media converters are specially designed for harsh industrial environments certified by UL508 and UL Class I Div 2 certifications.

Features & Benefits

- Network Management and Monitoring: supports Telnet, WEB management methods, Kyvision centralized management, SNMPv1/v2, LLDP
- Device Management: supports FTP/TFTP upgrade

Technical Specifications

Standard

IEEE 802.3i, IEEE 802.3u

Protocol

Telnet, SNMPv1/v2, LLDP, HTTP, Modbus TCP, FTP, TFTP

Switch Properties

MAC Table: 2K
Packet Buffer: 1Mbit
Packet Forwarding Rate: 0.8Mpps
Switching Delay: <5μs

Interface

Fast Ethernet Fiber Ports: 1 100Base-FX, SM/MM port, FC/SC/ST connector
Fast Ethernet RJ45 Ports: 2 10/100Base-TX RJ45 ports

LED

LEDs on Front Panel:
Running LED: Run
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: 12VDC (9-36VDC), 24VAC/DC (18-50VAC/18-72VDC)
Power Terminal: 5-pin 5.08mm-spacing plug-in terminal block
Power Consumption: 2.7W (full load)

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

Physical Characteristics

Housing: Metal, fanless
Protection Class: IP40
Dimensions (W×H×D): 30×115×91.5mm (1.18×4.53×3.60 in.)
Weight: 0.3kg (0.661 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

462,741 hrs

Warranty

5 years

Approvals

UL508 (pending), Class 1 Div 2 (pending), CE, FCC

Industrial Standard

EMI:
FCC CFR47 Part 15, EN55022/CISPR22, Class A

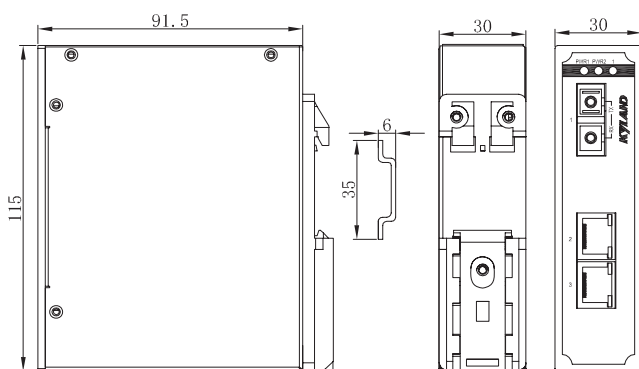
EMS:
IEC61000-4-2 (ESD): $\pm 8\text{kV}$ (contact), $\pm 15\text{kV}$ (air)
IEC61000-4-3 (RS): 10V/m (80MHz-2GHz)
IEC61000-4-4 (EFT): Power Port: $\pm 4\text{kV}$; Data Port: $\pm 2\text{kV}$
IEC61000-4-5 (Surge): Power Port: $\pm 2\text{kV/DM}$, $\pm 4\text{kV/CM}$; Data Port: $\pm 2\text{kV}$
IEC61000-4-6 (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)

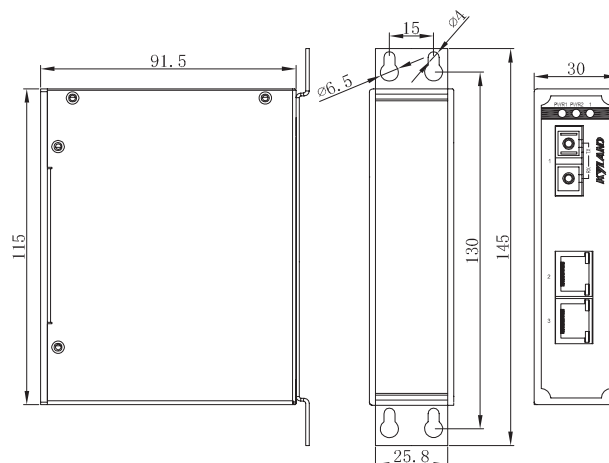
Industry: IEC61000-6-2
Railway: EN50155, EN50121-4

Mechanical Drawing

DIN-Rail Mounting



Panel Mounting



Ordering Information

Model	Fast Ethernet Port			Fiber Connector			Power Supply	
	100Base-FX Single Mode	100Base-FX Multi Mode	10/100Base-TX	SC	ST	FC	9-36VDC	18-50VAC/18-72VDC
KOM300M-M	--	1	2					
KOM300M-S	1	--	2					

Please Select

Accessories

Model	Description
DT-BGAZ-01	Panel mounting kit
DT-FCZ-RJ45-01	RJ45 dustproof shield

Order Codes

KOM300M - _____ - _____ - _____ - _____
FX Connector Distance PS

FX: Fiber Ports

M= 1 multi mode fiber port

S= 1 single mode fiber port

Connector: Fiber Connector

FC= FC connector

SC= SC connector

ST= ST connector

SD= single fiber bi-direction, only for single mode, only SC connector (different price)

Distance: Fiber Distance

2= multi mode, 850nm, 2km

5 (or None)= multi mode, 1310nm, 5km (multi mode default)

40 (or None)= single mode, 1310nm, 40km (single mode default)

60= single mode, 1310nm, 60km (different price)

60L= single mode, 1550nm, 60km (different price)

80L= single mode, 1550nm, 80km (different price)

5T3R= single fiber bi-direction, 1550T/1310R, 20km (different price)

5R3T= single fiber bi-direction, 1550R/1310T, 20km (different price)

40/5T3R= single fiber bi-direction, 1550T/1310R, 40km (different price)

40/5R3T= single fiber bi-direction, 1550R/1310T, 40km (different price)

80/5T3R= single fiber bi-direction, 1550T/1310R, 80km (different price)

80/5R3T= single fiber bi-direction, 1550R/1310T, 80km (different price)

PS: Power Supply

12W=12VDC/24VDC (9-36VDC), dual power inputs

24A= 24VAC/24VDC/48VDC (18-50VAC/18-72VDC), dual power inputs

Example order codes

KOM300M-M-SC-12W

1 multi mode 1310nm 5km fiber ports with SC connector, 2 10/100Base-TX RJ45 ports, 12VDC/24VDC (9-36VDC), dual power inputs