

KOM300M

3 Port 100M Managed Industrial Media Convertor



- Green Ethernet Solution with ultra low power consumption design;
- As low as 2.7 watts full load power consumption;
- 1 100Base-FX single mode or multi mode fiber port, FC/SC/ST connector, and 2 10/100Base-TX RJ45 ports;
- Support Telnet, WEB management, Kyvision centralized management, SNMPv1/v2, LLDP
- Support FTP/TFP upgrade
- EMC performance reaches industrial level 4;
- IP40 protection class;
- Wide -40 to 85°C operating temperature;
- Rugged hardware design with UL508, UL Class 1 Div 2 certifications



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 convertor 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 convertors are specially designed for harsh industrial environments certified by UL508 and UL Class I Div 2 certifications.

Technical Specifications

Standard

IEEE802.3i
IEEE802.3u

Protocol

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

Interface

1 100Base-FX single-mode or multi-mode port, SC/ST/FC connector
2 10/100Base-TX Ethernet RJ45 ports

Switch Properties

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

LED

Power LED: PWR1,PWR2
Running LED: Run
Interface LED: Link/ACT, Speed (RJ45 port)

Transmission Distance

Twisted Pair: 0-100m (standard CAT5, CAT5e network cable)
Multimode Fiber: 1310nm, 0-5km (100M)
Single Mode Fiber: 1310nm, 40km/60km (100M);
1550nm, 60km/80km (100M)

Power Requirements

Power Input:
9-36VDC, 13-50VAC/18-72VDC
Power terminal:
5-pin 5.08mm-spacing plug-in terminal block
Power Consumption:
2.7 Watts (full load); 1.6 Watts (standby)

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

Physical Characteristics

Housing: Metal, fanless
Protection Class: IP40
Dimensions: 30×115×91.5 mm (W×H×D) (1.18×4.52×3.60 in)
Weight: 0.3kg (0.661 pound)
Mounting: DIN-Rail or wall 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

Safety: UL508 (Pending)
Hazardous Location: Class 1 Div 2 (Pending)
EMC: 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)

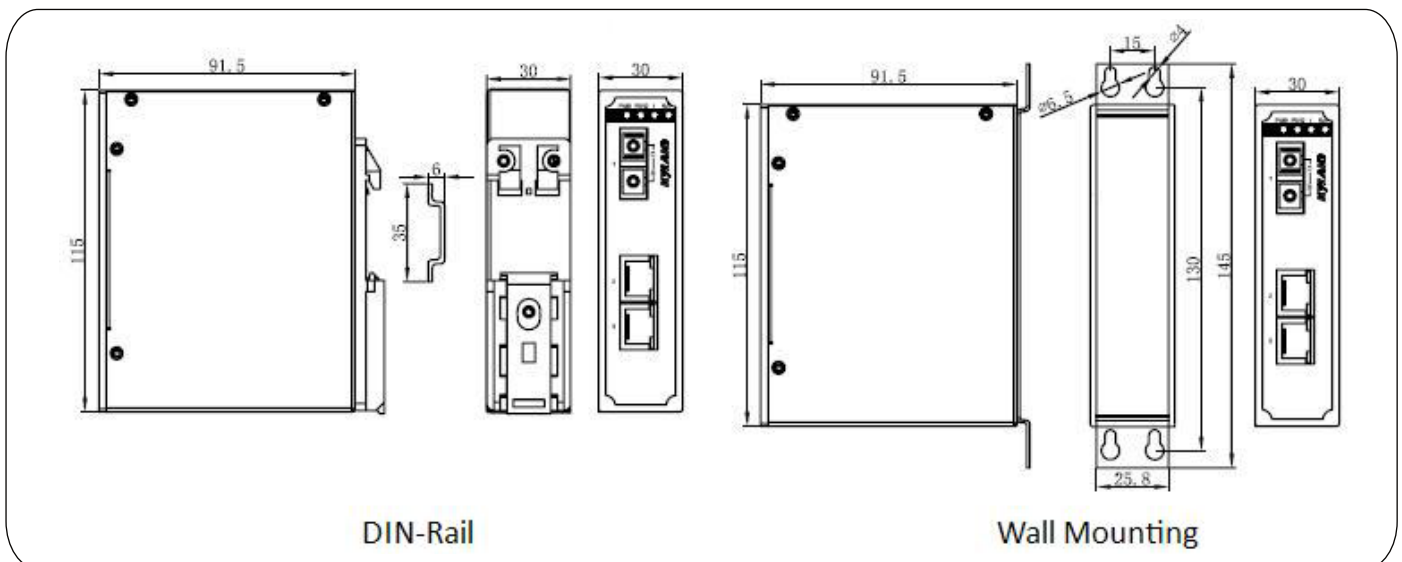
Machinery

Shock: IEC68-2-27, duration of the half-sine pulse: 11ms, peak acceleration: 300m/s²
Free Fall: IEC68-2-32, Mass<20Kg: 0.25m
Vibration: IEC68-2-6, vibration amplitude: 7mm, acceleration: 20-15, frequency range: 2-9HZ 9-200HZ 200-500HZ

Industry: IEC61000-6-2

Railway: EN50155, EN50121-4

Mechanical Drawing



Ordering Information

Please Select

Model	Wide Temperature (-40 to 85°C)	Port Interface			Fiber Connector			Power Supply (Dual Power Inputs)	
		10/100BaseTX	100BaseFX Multi-mode	100BaseFX Single-mode	SC	ST	FC	9-36 VDC	18-72VDC/ 13-50VAC
KOM300M-M	√	2	1	-					
KOM300M-S	√	2	-	1					

Accessories

DT-BGAZ-A-01 Wall mounting panel
DT-JJAZ-A-01 Rack mounting panel
DT-FCZ-RJ45-01 RJ45 dustproof cover

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= 24VDC/48VDC/24VAC (18-72VDC/13-50VAC), 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 dual power inputs