# KOM300A

# 3 Port Unmanaged Din-Rail Copper to Fiber Media Converter

- Green Ethernet solution with ultra low power consumption design
- As low as 2.2 watts full load power consumption
- 2 10/100Base-TX ports and 1 100Base-FX port
- 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 KOM300A is a new member of Kyland ultra low power consumption Green Ethernet series, its full load power consumption is as low as 3.1 watts. The KOM300A 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 KOM300A series provide 24DCW(18-72VDC) and 220AC/DCW (85-264VAC/77-300VDC) power supply. It supports 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 l Div 2 certifications.

## Technical Specifications

### Standard
IEEE 802.3i
IEEE 802.3u

### 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:
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),220AC/DCW(85-264VAC/77-300VDC)
Power Terminal:
5-pin 5.08mm-spacing plug-in terminal block
Power Consumption: 2.2W (full load)

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

### Physical Characteristics
Housing: Metal, fanless
Protection Class: IP40
Dimensions (W×H×D):
30×115×91.5mm (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℃ (-40 to 185°F)
Storage Temperature: -40 to 85℃ (-40 to 185°F)
Ambient Relative Humidity: 5 to 95% (non-condensing)

### MTBF
462,741 hrs

### Warranty
5 years

### Approvals
UL508 , Class 1 Div 2 , CE, FCC

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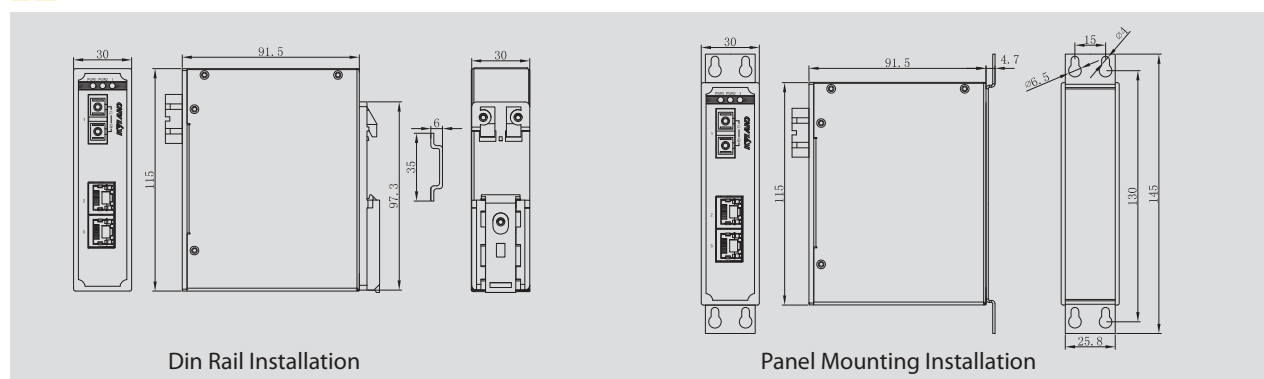FCC CFR47 Part 15, EN55022/CISPR22, Class A

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

## ⟫ Mechanical Drawing



Din Rail Installation

Panel Mounting Installation

## ⟫ Ordering Information

KOM300A - \_\_\_\_\_ - _____ - _____ - \_\_\_
               Ports    Distance   Connector   PS

### Ports
**1M-2T** = 1 100Base-FX multi mode ports, 2 10/100Base-TX ports
**1S-2T** = 1 100Base-FX single mode ports, 2 10/100Base-TX ports

### Distance: Fiber Distance
**1310-5** = 1310nm, 5km
**1310-40** = 1310nm, 40km
**1310-60** = 1310nm, 60km
**1550-80** = 1550nm, 80km

### Connector: Fiber Connector
**SC** = SC Connector
**ST** = ST Connector
**FC** = FC Connector

### PS: Power Supply
**24DCW** = 18-72VDC, dual redundant power inputs
**220AC/DCW** = 220AC/DCW(85-264VAC/77-300VDC), single power input

### Example Order Codes
KOM300A-1M-2T-1310-5-SC-24DCW
1 100Base-FX multi mode fiber ports, 1310nm, 5km, SC connectors, and 2 10/100Base-TX copper ports, 18-72VDC, dual redundant power inputs