KYLAND

Industrializing the Ethernet
Simplifying Industrial Communication

KOM300F
Industrial Ethernet to Fiber Media Converter

Version: 100528

KOM300F
Industrial Ethernet to Fiber Media Converter

CE, FCC, RoHS,
Chinese State
Grid Certification

Overview

KOM300F is an industrial fiber optic converter which can work in harsh electromagnetic environment and wide range of temperature.

Features

1. Supports 1 100Base-FX port, 2 10/100Base-T(X) RJ45 ports
2. MAC Address Table Size: 1K; buffer cache: 1M
3. Plug and play
4. Abundant power supply options
5. Operating temperature: -40 to 85℃ (-40 to 185°F)
6. DIN-Rail, wall mounting or rack-mounting through bracket
7. IP30 protection class

Technical Specifications

Standard
IEEE802.3
IEEE802.3u
IEEE802.3x
store and forward switching mode

Interface
100M Fiber Port: 1 x 100Base-FX port, FC/SC/ST
10/100M Copper Ports: 2 x 10/100Base-T(X) ports, RJ45
LED Indicators: RUN, LINK/ACT (1, 2)

Cable
Twisted Pair: 0-100m (Standard CAT5, CAT5e network cable)
Multi Mode Fiber: 1310nm, 0-5km
Single Mode Fiber: 1310nm, 0-40km; 1550nm, 0-80km

Power Requirements
Power input: 24VDC (9-36VDC), 48VDC (36-72VDC), 110VDC (70-140VDC), 110VAC/220VAC/220VDC (85-265VAC/120-370VDC), single power input
Power terminal: 3-Pin 3.81mm-spacing plug-in terminal block
Power consumption: <3W

Physical Characteristics
Casing: Ribbed aluminum case (fanless)
Protection class: IP30
Installation: DIN-Rail, wall mounting or rack mounting through bracket
Dimensions (WxHxD): 36x100x75 mm (1.42x3.94x2.95 in.)
Weight: 0.3kg (0.661pound)

Environmental Limits
Operating Temperature: -40 to 85℃ (-40 to 185°F)
Storage Temperature: -40 to 85℃ (-40 to 185°F)
Ambient Relative Humidity: 0 to 95% (non-condensing)

Approvals
IEC61000-4-2 (ESD): ±4KV contact discharge, ±8KV air discharge
IEC61000-4-3 (RS): 10V/M (80-1000MHz)
IEC61000-4-4 (EFT): power line ±2KV, data line ±1KV
IEC61000-4-5 (Surge): power line ±2KV CM/±1KV DM, data line ±1KV
IEC61000-4-6 (CS): 3V (10KHZ-150KHZ),10V (150KHz-80MHz)
IEC61000-4-8 (Power frequency magnetic field): 100A/m cont. 1000A/m, 1s to 3s
IEC61000-4-12/18 (Damped oscillatory wave): 2.5KV CM, 1KV DM
IEC61000-4-10 (Damped oscillatory): 30A/m
IEC61000-4-16 (Common mode conduct): 30V cont. 300V, 1s
FCC CFR47 Part 15/EN55022: Class A&B
IEC61000-6-2 (Industrial Standards), EN50121-4 (Railway Applications)

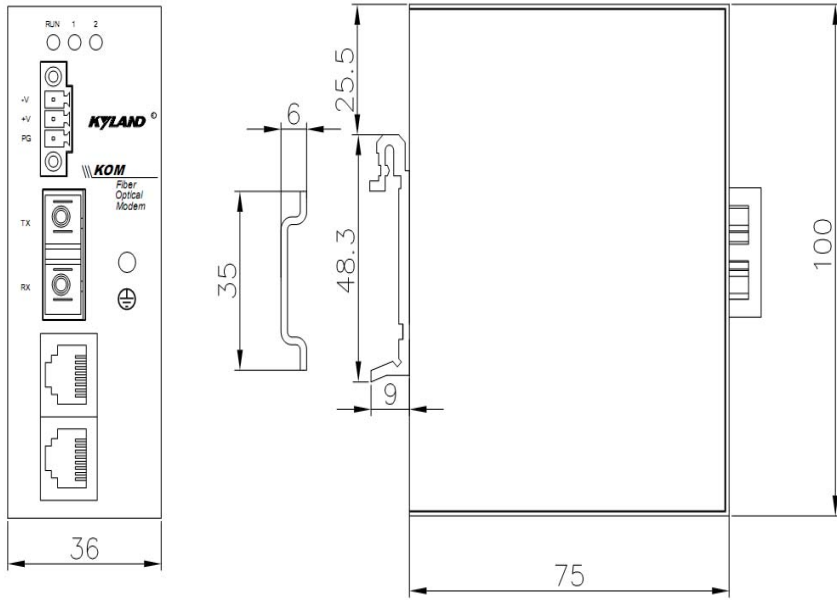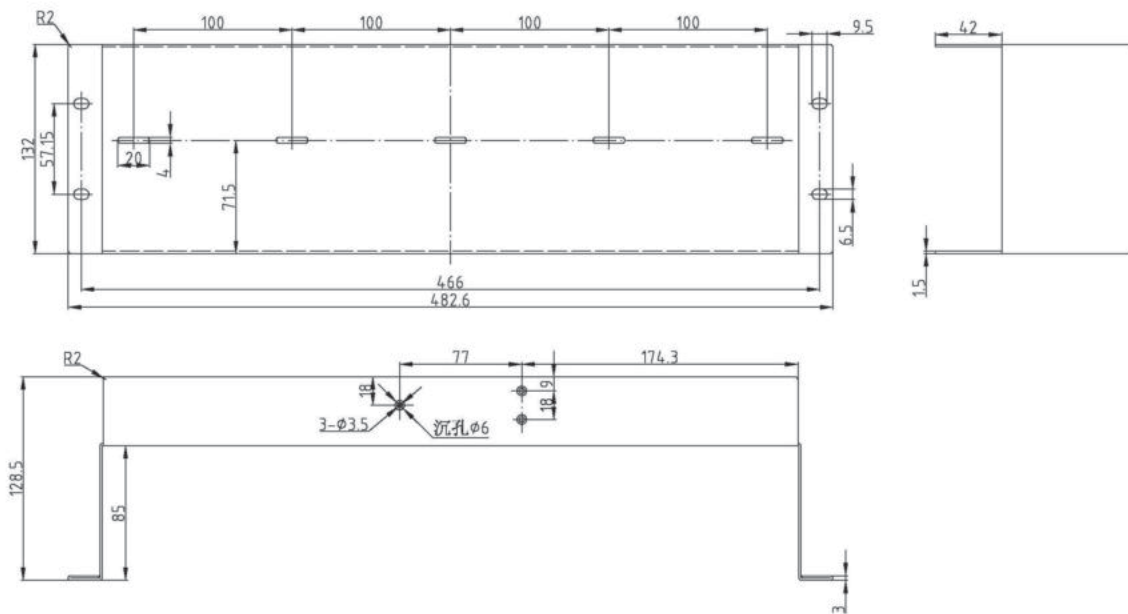CE, FCC, RoHS, Chinese State Grid Certification

MTBF
35 years

Warranty
5 years

Mechanical Drawing

KOM300F

KOMFrm: 19 inch rack bracket

Ordering Information

Model	Description
KOM300F-S	Industrial Ethernet to fiber media converter with 1 100Base-FX port, single mode, full duplex, FC/SC/ST connector, 2 10/100Base-T(X) ports, RJ45 connector, DIN-Rail, wall mounting or rack mounting through bracket, 24VDC (9-36VDC), 48VDC (36-72VDC), 110VDC (72-144VDC), 110VAC/220VAC/220VDC(85-265VAC/120-370VDC), single power input, -40 to 85℃ operating temperature
KOM300F-M	Industrial Ethernet to fiber media converter with 1 100Base-FX port, multi mode, full duplex, FC/SC/ST connector, 2 10/100Base-T(X) ports, RJ45 connector, DIN-Rail, wall mounting or rack mounting through bracket, 24VDC (9-36VDC), 48VDC (36-72VDC), 110VDC (72-144VDC), 110VAC/220VAC/220VDC(85-265VAC/120-370VDC), single power input, -40 to 85℃ operating temperature
KOM300BA-S	Industrial Ethernet to fiber media converter with 1 100Base-FX port, single mode, full duplex, FC/SC/ST connector, 2 10/100Base-T(X) ports, RJ45 connector, DIN-Rail, wall mounting or rack mounting through bracket, 24VDC (9-36VDC), 48VDC (36-72VDC), 110VDC (72-144VDC), 110VAC/220VAC/220VDC(85-265VAC/120-370VDC), single power input, -40 to 85℃ operating temperature, intrinsically safe
KOM300BA-M	Industrial Ethernet to fiber media converter with 1 100Base-FX port, multi mode, full duplex, FC/SC/ST connector, 2 10/100Base-T(X) ports, RJ45 connector, DIN-Rail, wall mounting or rack mounting through bracket, 24VDC (9-36VDC), 48VDC (36-72VDC), 110VDC (72-144VDC), 110VAC/220VAC/220VDC(85-265VAC/120-370VDC), single power input, -40 to 85℃ operating temperature, intrinsically safe
Accessories	
KOMFrm	Bracket for rack mounting: 482.6x132x128.5mm

Power supply: 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power input