

KOM300F-1S2T-SDSC40-1310T/1550R-HV

3 port DIN-Rail copper to fiber media converters



» Overview

The KOM300F is a ultra low power consumption Green industrial media convertor, its full load power consumption is as low as 3.5 watts. The KOM300F supports 1 100Base-FX fiber port and 2 10/100Base-T(X) copper ports. The KOM300F provides 9-36 VDC, 18-72VDC or 85-264VAC/77-300VDC single power inputs, supports DIN-Rail mounting or Panel mounting, metal housing with IP40 protection class, operating temperature -40°C to 75°C.

» Key Features

Green Ethernet solution with ultra-low power consumption design, its full load power consumption is as low as 3.5 watts

1 100Base-FX port and 2 10/100Base-T(X) RJ45 ports

Single power inputs with wide voltage range

IP40 protection class

EMC level 3

CE, FCC certificates

» Product Specifications

>Product Specifications

-Standard

IEEE 802.3i(10Base-T)

IEEE 802.3u(100Base-TX and 100Base-FX)

-Switch Properties

MAC Table 2K

Packet Buffer 1Mbit

Packet Forwarding Rate 0.8Mpps

Switching Delay <5 μ s

-Interface

Fast Ethernet Ports

100Base-FX, SM/MM port, SC/ST/FC connector

10/100Base-T(X) RJ45 port

-LED

Indicators in the front panel

Power LED: PWR

Interface LED: Link/ACT, Speed (RJ45 Ports); Link/ACT(Fiber Ports)

-Power Requirements

24-48VDC(18-72VDC) : 3-pin 5.08mm-spacing plug-in terminal block

12-24VDC(9-36VDC) : 3-pin 5.08mm-spacing plug-in terminal block

24VDC(18-36VDC) : 3-pin 5.08mm-spacing plug-in terminal block

100-240VAC,50/60Hz;110-220VDC(85-264VAC/77-300VDC) : 3-pin 7.62mm-spacing plug-in terminal block

Power Consumption <3.5W

Overload Protection Support

Reverse Connection Protection Support

-Physical Characteristics

Housing Metal

Heat Dissipation Mode Natural cooling, without fans

Protection Class IP40

Dimensions 30mm×115mm×91.5mm (W×H×D)

Weight 0.4kg

Mounting DIN-Rail or Panel mounting

-Environmental Limits

Operating Temperature -40 to 75°C

Storage Temperature -40 to 85°C

Ambient Relative Humidity 5 to 95% (non-condensing)

-Quality Assurance

MTBF 478,852 hours

Warranty period 5 years

-Approvals

CE, FCC

EMC: EN 55032, EN 61000-6-4, EN 61000-6-2

IEC 62368-1, EN 62368-1

-Industry Standard

EMI FCC CFR47 Part 15, EN55032/CISPR22, Class A

EMS

IEC61000-4-2(ESD) $\pm 6\text{kV}$ (contact), $\pm 8\text{kV}$ (air)

IEC61000-4-3(RS) 10V/m(80MHz-2GHz)

IEC61000-4-4(EFT) Power Port: $\pm 2\text{kV}$; Data Port: $\pm 1\text{kV}$

IEC61000-4-5(Surge) Power Port: $\pm 1\text{kV}/\text{DM}$, $\pm 2\text{kV}/\text{CM}$; Data Port: $\pm 2\text{kV}$

IEC61000-4-6(CS) 10V(150kHz-80MHz)

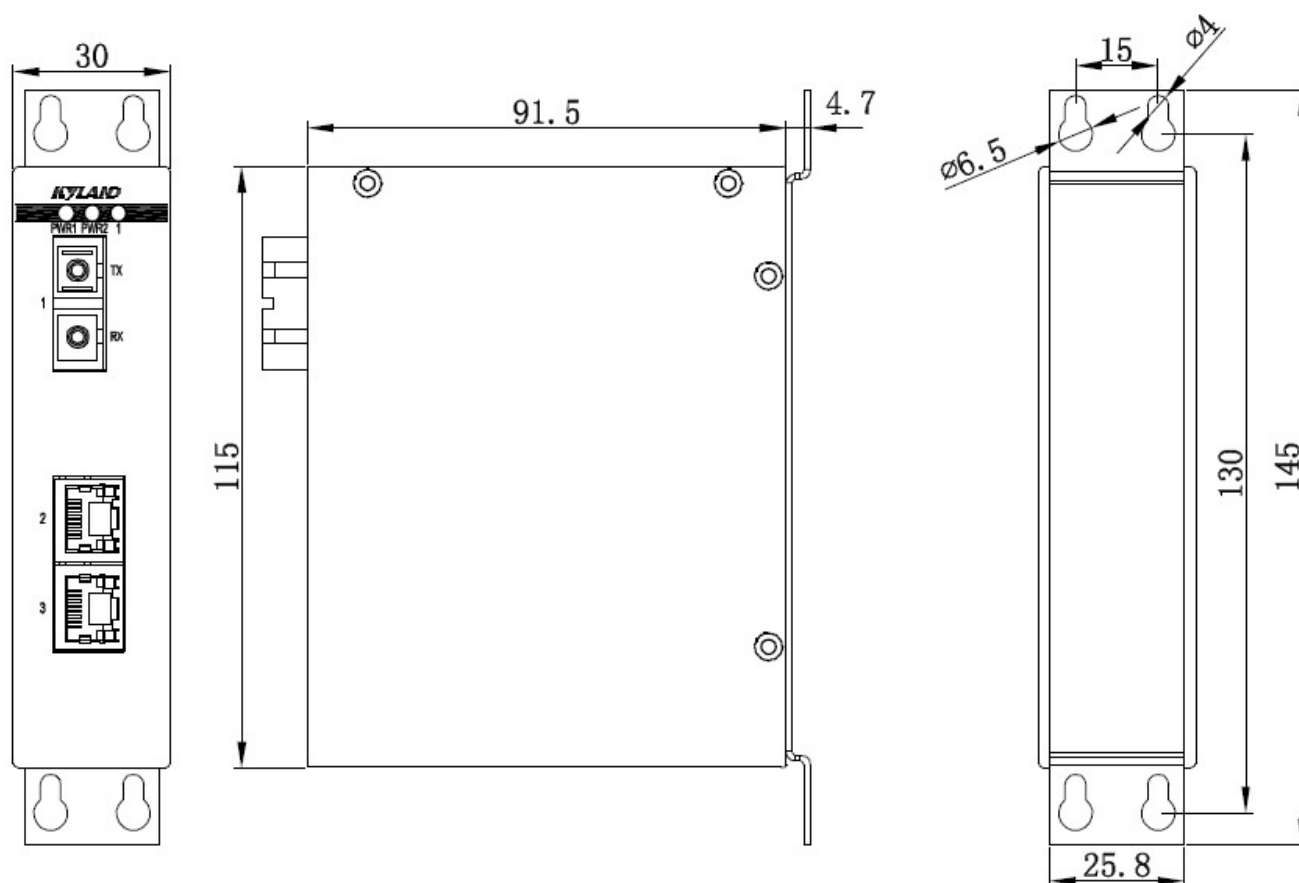
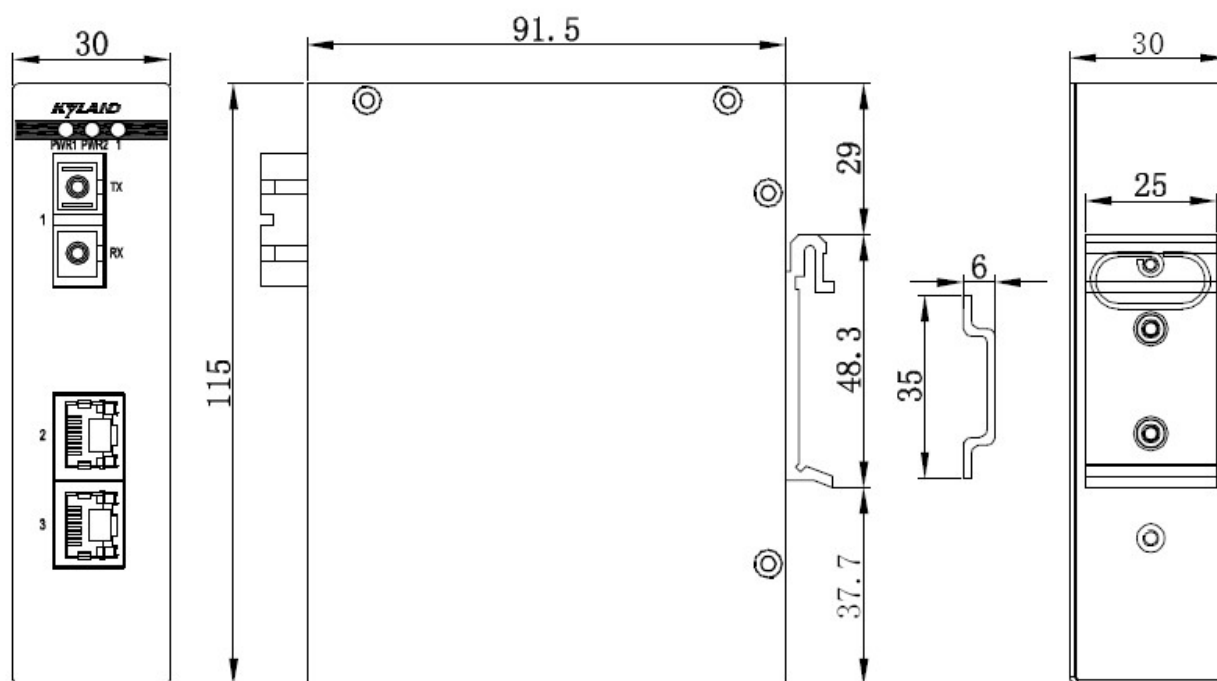
Mechanical standards

IEC60068-2-6 (Vibration)

IEC60068-2-27 (Shock)

IEC60068-2-32 (Free Fall)

Mechanical Drawing



Optical Parameters

Optical Parameters

Parameter	Symbol	Min	Typ	Max	Units
Transmitter					
Data rate	B	-	155	-	Mb/s
Output Center Wavelength	λ_c	1270	1310	1350	nm
Output Spectral width (RMS)	λ	-		4	nm
Average Optical Output Power	P _O	-10	-6	-3	dBm
Extinction Ratio	EXT	10	-	-	dB
Receiver					
Receiver Sensitivity	P _{MIN}	-	-	-36	dBm
Maximum Input Power	P _{MAX}	-3	-	-	dBm
Signal Detect -- Asserted	P _A	-	-	-36	dBm
Signal Detect -- Deasserted	P _D	-45	-	-	dBm
Signal Detect - Hysteresis	P _{HYS}	1.0		4.0	dB

Parameter	Symbol	Min	Typ	Max	Units
Transmitter					
Data rate	B	-	155	-	Mb/s
Output Center Wavelength	λ_c	1520	1550	1580	nm
Output Spectral width (-20 dB)	λ	-	-	1	nm
Average Optical Output Power	P _O	-10	-8	-5	dBm
Extinction Ratio	EXT	10	-	-	dB
Receiver					
Receiver Sensitivity	P _{MIN}	-	-	-36	dBm
Maximum Input Power	P _{MAX}	-3	-	-	dBm
Signal Detect -- Asserted	P _A	-	-	-36	dBm
Signal Detect -- Deasserted	P _D	-45	-	-	dBm
Signal Detect - Hysteresis	P _{HYS}	1.0		4.0	dB

Ordering Information

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Product Model	KOM300F-Ports-Connector-PS
Code definition	Code selection
Ports:	1M2T = 1 × 100Base-FX multi-mode port, 2 × 10/100Base-T(X) RJ45 ports 1S2T = 1 × 100Base-FX single mode port, 2 × 10/100Base-T(X) RJ45 ports
Connector:	SC05 = SC connector, multi-mode, 1310nm, 5km ST05 = ST connector, multi-mode, 1310nm, 5km FC05 = FC connector, multi-mode, 1310nm, 5km SC40 = SC connector, single mode, 1310nm, 40km ST40 = ST connector, single mode, 1310nm, 40km FC40 = FC connector, single mode, 1310nm, 40km SC60 = SC connector, single mode, 1310nm, 60km SC80 = SC connector, single mode, 1550nm, 80km
PS Power Supply	L2 = 24-48VDC(18-72VDC), single power input L5 = 12-24VDC(9-36VDC), single power input L3 = 24VDC(18-36VDC), single power input HV = 100-240VAC,50/60Hz;110-220VDC(85-264VAC/77-300VDC), single power input

Accessories

Accessory model	Description
DT-BGAZ-01	Panel for panel mounting
DT-FCZ-RJ45-01	Dustproof cover for RJ45 port

Version:2021-05-26 14:45:58