



KCD-300



Industrial 10/100Base-TX to 100Base-FX Media Converters



DIN Rail Mounting Bracket



Panel Mounting Bracket

The industrial KCD-300 media converter series provides industrial strength Ethernet copper-to-fiber media conversion, allowing for 10Base-T-100Base-FX or 100Base-TX-100Base-FX over multi-mode or optional single-mode fiber optical media.

Benefits :

- Comprehensive configuration settings to increase flexibility for application needs
- Wide operating temperature range for temperature critical environment
- Support DIN rail mounting and panel mounting
- Provide two power input types to meet more application needs
- Accept wide power input voltage range for application flexibility
- Industrial-rated Emission and Immunity performance

Key Features :

- Support full wire speed conversion for 10/100 speed and media types
- Support auto-negotiation 10/100Mbps or forced mode on TP copper port
- Auto MDI/MDI-X crossover function on the TP copper port
- Provide Link Fault Pass Through function
- Provide comprehensive manual configuration settings
- Transparent conversion to 802.1Q VLAN tagged packets
- Provides Far End Fault function on FX (fiber) port
- Low power consumption
- Two power interface types: screw terminal block and DC Jack
- Supports wide power input voltage range
- Supports DIN rail mounting and optional screwed plane mounting
- Supports wide operating temperature range
- Industrial-rated Emission and Immunity performance

Specifications :

Conversion	10BASE-T to 100BASE-FX 100BASE-TX to 100BASE-FX
Conversion Methods	Smart-forward mode : - Store-and-forward for 10M to 100M - Direct conversion for 100M to 100M Store-and-forward always mode
Packet Types	Transparent conversion with no modification to : - Standard IEEE 802.3 Ethernet packet frames - IEEE 802.1Q tagged packet frames
TP Port	Shielded RJ-45 jack Auto MDI/MDI-X crossover function Auto-negotiation function for speed and duplex mode Full-duplex and half-duplex support 10Mbps - supports Cat. 3,4,5 UTP cable up to 100m 100Mbps - supports Cat. 5 UTP cable up to 100m



EMI EMS Safety Environmental Tests :

Test	Standard	Specifications
FCC/EMI	FCC Rule Part 15	Class B
CE/EMC/EMI	EN55022, CISPR 22	Class B
CE/EMC/Harmonic	EN 61000-3-2	< 75 W
CE/EMC/VFF	EN 61000-3-3	Clause 5
CE/EMC/EMS	EN 55024	
ESD Test	IEC 61000-4-2	+/-8KV
RS Test	IEC 61000-4-3	Strength:10V/m
EFT/BURST	IEC 61000-4-4	Power:+/-4KV
Surge Immunity	IEC 61000-4-5	Data:+/-2KV
CS Test	IEC 61000-4-6	Level 3
Magnetic Field Imm.	IEC 61000-4-8	50Hz 40A/m
Voltage Dips Imm.	IEC 61000-4-11	Interruption : C Dips : A
Safety	EN 60950, IEC 60950	
Dielectric Voltage	IEEE 802.3	TP, 1500VAC/60sec.
Insulation Resistance	IEEE 802.3	TP, 500VDC/10Mohm
Cold Test	IEC 68-2-1 Test Bd	-20°C, 96hrs
Dry Heat Test	IEC 68-2-2 Test Bd	+70°C 40%RH 96hrs
Damp Heat Test	IEC 68-2-3	+60°C 90%RH 96hrs
Storage Test	IEC 68-2-48	-20°C 96hrs +85°C 40%RH 96hrs
Vibration Test	IEC 68-2-34	

Ordering Information :

Model KCD-300-xxx	FX Port Fiber	Ref. Distance	Operating Temperature
-T	ST MMF	2km	-10 ~ 70°C
-C	SC MMF	2km	-10 ~ 70°C
-C1	SC MMF	2km	-20 ~ 70°C
-SA2	SC SMF	20km	-20 ~ 70°C
-SL2	SC SMF	20km	-20 ~ 70°C
-SL3	SC SMF	30km	-20 ~ 70°C
-SL4	SC SMF	40-50km	-20 ~ 70°C
-SL10	SC SMF	100km	-20 ~ 70°C
-W3515	Bi-Di SC SMF	15-20km	-20 ~ 70°C
-W5315	Bi-Di SC SMF	15-20km	-20 ~ 70°C

KCD-3PB	Panel mounting bracket for KCD-300
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FCC Part 15, Class B
CISPR 22 Class B

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Fiber (FX) Port

Multimode ST, SC, Single mode SC
100Mbps Full-duplex and half-duplex support
MMF 50/125µm, 62.5/125µm fiber cable
SMF 9/125µm cable
Far End Fault Indication support

Flow Control

IEEE 802.3x for full-duplex, Back pressure for half-duplex

LEDs

- Power status
- TP port link, activity, speed, duplex status
- Per FX port link, activity, optical link status

Configuration Setting Switches

Auto/forced mode, TP speed, TP duplex FXduplex

DC Power Input

Screwed terminator block : 2 pairs of +/- contacts
DC jack : -D 6.3mm / + D 2.0mm
Operating voltage range : +7 - +30VDC

Power Consumption

3W max. @30VDC power input

Dimension

28 x 82 x 95 mm, Weight : 250g

Housing

Enclosed metal with no fan

Mounting Support

DIN Rail mounting, Panel mounting

Environment

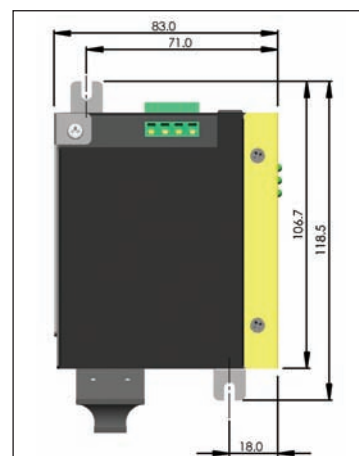
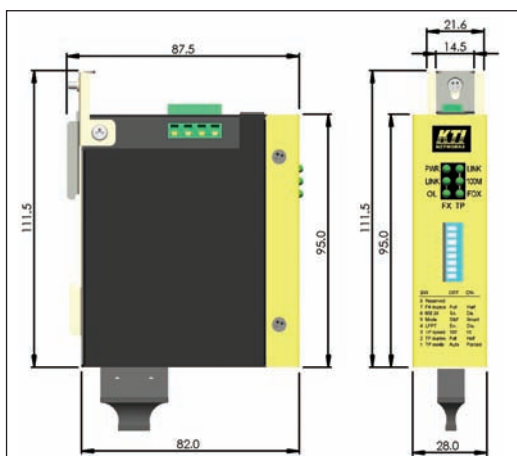
Operating Temperature: See ordering information
Storage Temperature: -20°C ~ 85°C
Relative Humidity: 5% ~ 95% non-condensing

Approval

FCC Class B, CE/EMC Class B, EN60950 safety

Fiber Optical Specification :

Model	FX & Cable	Wavelength	Tx Power	Rx Sensitivity	Rx Max.Power
-T	ST MMF	1310nm	-19 ~-14 dBm	-31 dBm	-14 dBm
-C	SC MMF	1310nm	-19 ~-14 dBm	-31 dBm	-14 dBm
-C1	SC MMF	1310nm	-20 ~-14 dBm	-31 dBm	0 dBm
-SA2	SC SMF	1310nm	-15 ~-8 dBm	-31 dBm	-7 dBm
-SL2	SC SMF	1310nm	-15 ~-8 dBm	-30 dBm	-7 dBm
-SL3	SC SMF	1310nm	-15 ~-8 dBm	-34 dBm	0 dBm
-SL4	SC SMF	1310nm	-5 ~0 dBm	-35 dBm	-3 dBm
-SL10	SC SMF	1550nm	-5 ~0 dBm	-35 dBm	-3 dBm
-W3515	Bi-Di SC SMF	Tx 1310nm Rx 1550nm	-14 ~-8 dBm	-31 dBm	0 dBm
-W5315	Bi-Di SC SMF	Tx 1550nm Rx 1310nm	-14 ~-8 dBm	-31 dBm	0 dBm



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