

Available from:

CablesPlus

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Cables Plus, LLC

8504 Glazebrook Ave Richmond, VA 23228 ~ Toll Free (866) 678-5852

www.CablesPlusUSA.com

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

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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 Ad	-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 68-2-4B	-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
-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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Trademarks: All brand names are trademarks or registered trademarks of their respective holders.
This information is subject to change without prior notice.

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

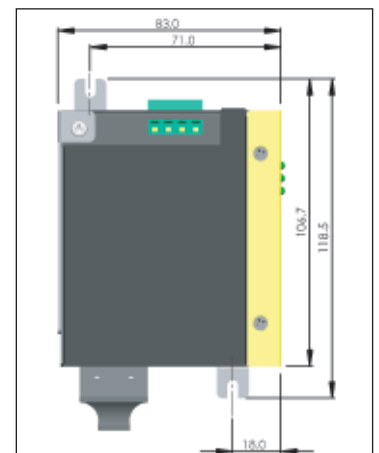
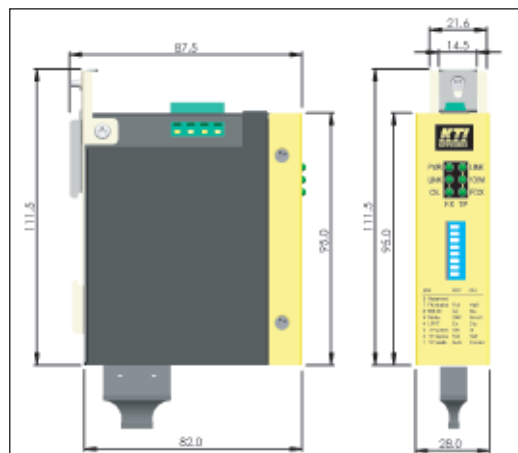
Operating Temperature: See ordering information
Storage Temperature: -20°C ~ 85°C
Relative Humidity: 5% ~ 95% non-condensing

Approval

FCC Class B
CE/EMC Class B, EN60950 safety

Fiber Optical Specifications:

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
-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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