KC-300D, KC-300DM



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

Product Highlights:

- Full wire speed performance
- Comprehensive configuration options
- Loop back test support
- Remote TP link monitoring
- Low power consumption
- Loop back test support
- Optional DIN-Rail mounting
- Center Chassis installation support
- Options for Bi-Di communication
- Options for CWDM

DIN-Rail Mounting Bracket
KC-3DR



Managed Center Chassis
KC-1300



The media converters are designed to convert 10Base-T or 100Base-T signals to/from 100Base-FX fiber signals. It is used to extend the connection distance between two Ethernet devices via fiber cable transparently with no performance degradation. The media converters not only support existing variety of multimode and single mode fibers but also support Bi-Di WDM and CWDM fiber network applications. It is also featured with design to support center chassis installation with optional power redundancy and management features when a larger fiber network is required.

Key Features:

- Convert speed and media type in full wire speed
- Support 10/100M dual speed on TP connections, auto-negotiation, and auto-MDI/MDI-X detection
- Link fault pass through function
- Transparent to 802.1Q VLAN tagged packets
- Far End Fault function on FX port
- Support desktop, wall and DIN-Rail mounting
- Support center chassis installation
- Low power consumption
- Support wide range of fiber options
- Provide user accessible settings for TP port configuration,disabling link fault pass through function

KC-300DM Specific

- Provides indications of remote media converter's TP port status
- Provides Loop Back Test function with connected remote media converter

Specifications:

TP Port	IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX Shielded RJ-45 jacks with Auto MDI/MDI-X detection Auto-negotiation for speed and duplex auto detection Forced mode with speed and duplex settings Speed for 10Mbps or 100Mbps, Full-duplex or half-duplex support	
FX Port	IEEE 802.3u 100Base-FX compliant Forced 100Mbps, Full duplex (factory default) Far end fault Function	
Cable	Cat.5, 5e or higher UTP cable, MMF - 62.5/125µm, 50/125µm, SMF - 9 /125µm	
LEDs	KC-300D: TP Ports: FX Ports: KC-300DM: TP Ports: FX Ports: Remote TP Ports:	 Power status Link/Act, Speed, Duplex status Link/Act status, Fiber signal detected Power status Link/Act, Speed, Duplex status Link/Act status, Fiber signal detected Link, Speed, Duplex status

Powered via optional USB cable



Ordering Information:

KC-300D-X KC-300DM-X	Fiber Mode	Connector	Ref. Distance
-T	MM	Dual ST	2km
-C	MM	Dual SC	2km
-JM	MM	MT-RJ	2km
-VM	MM	VF-45	2km
-SL2	SM	Dual SC	20km
-SL3	SM	Dual SC	30km
-SL4	SM	Dual SC	40km
-SL6	SM	Dual SC	60km
-SL8	SM	Dual SC	80km
-SL10	SM	Dual SC	100km
-SL12	SM	Dual SC	120km
-W3520	SM	Bi-Di SC	20km
-W5320	SM	Bi-Di SC	20km
-W3540	SM	Bi-Di SC	40km
-W5340	SM	Bi-Di SC	40km
-W3580	SM	Bi-Di SC	80km
-W5380	SM	Bi-Di SC	80km
-CxxW40	SM	CWDM SC	40km
-CxxW50	SM	CWDM SC	50km
-CxxW80	SM	CWDM SC	80km

MM: Multimode Fiber
SM: Single Mode Fiber
Ref. Distance: Reference connection distance

Configuration Switches	Accessible settings: KC-300D - TP mode, TP duplex, TP speed, Link fault pass through KC-300DM - TP mode, TP duplex, TP speed, Link fault pass through, Auto status report
Packet Size	Up to 1522 bytes for store-and-forward mode No packet size limit for smart-forward mode (100-to-100)
Environment	Operating Temperature: -5°C ~ 50°C (Main device) Storage Temperature: -40°C ~ 85°C Relative Humidity: 5% ~ 90% non-condensing (* The operating temperature range of the bundled power adapter may differ from the temperature range of the main device.)
Weight	KC-300D: 210g, KC-300DM: 213g
Dimension	72.5 x 108 x 23 mm (WxDxH)
Power Input	+5V ~ +12VDC (±5%) via external power adapter
Power Consumption	2W max. @+7.5V (DC IN)
Approval	FCC class B, CE mark Class B

Model	Connector	Fiber*1	Wavelength	Tx Power*2	Rx Sens.	Rx Max.
-T	ST Duplex	MMF	1310nm	-20 ~ -14dBm	-32dBm	-8dBm
-C	SC Duplex	MMF	1310nm	-20 ~ -14dBm	-31dBm	0dBm
-JM	MT-RJ	MMF	1310nm	-19 ~ -14dBm	-31dBm	-14dBm
-VM	VF-45	MMF	1310nm	-20 ~ -14dBm	-31dBm	-14dBm
-SL2	SC Duplex	SMF	1310nm	-15 ~ -7dB	-32dBm	-3dBm
-SL3	SC Duplex	SMF	1310nm	-15 ~ -8dBm	-34dBm	0dBm
-SL4	SC Duplex	SMF	1310nm	-5 ~ 0dBm	-34dBm	-3dBm
-SL6	SC Duplex	SMF	1310nm	-5 ~ 0dBm	-35dBm	0dBm
-SL8	SC Duplex	SMF	1310nm	0 ~ 5dBm	-36dBm	0dBm
-SL10	SC Duplex	SMF	1550nm	0 ~ -5dBm	-35dBm	0dBm
-SL12	SC Duplex	SMF	1550nm	0 ~ 5dBm	-35dBm	0dBm
-W3520	Bi-Di SC	SMF	TX 1310nm RX 1550nm	-14 ~ -8dBm	-31dBm	0dBm
-W5320	Bi-Di SC	SMF	TX 1550nm RX 1310nm	-14 ~ -8dBm	-31dBm	0dBm
-W3540	Bi-Di SC	SMF	TX 1310nm RX 1550nm	-8 ~ 0dBm	-34dBm	0dBm
-W5340	Bi-Di SC	SMF	TX 1550nm RX 1310nm	-8 ~ 0dBm	-34dBm	0dBm
-W3580	Bi-Di SC	SMF	TX 1310nm RX 1550nm	0 ~ 5dBm	-34dBm	0dBm
-W5380	Bi-Di SC	SMF	TX 1550nm RX 1310nm	-2 ~ 4dBm	-35dBm	0dBm
-CxxW40	CWDM SC	SMF	Tx 1xx0nm RX 1100-1650nm	-5 ~ 0dBm	-35dBm	0dBm
-CxxW50	CWDM SC	SMF	Tx 1xx0nm RX 1260-1620nm	-4 ~ 3dBm	-35dBm	0dBm
-CxxW80	CWDM SC	SMF	Tx 1xx0nm RX 1100-1650nm	0 ~ 5dBm	-37dBm	0dBm

*1 MMF: Multimode fiber - 62.5/125 µm,50/125 µm
SMF: Single Mode fiber - 9 /125 µm

*2 Data for 62.5/125µm MMF, 9 /125µm SMF

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