



# 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

KC-3DR :  
Din-Rail mounting bracket



KC-1300 :  
Managed center chassis



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 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



## Ordering Information :

KC-300D-X KC-300DM-X	Fiber Mode	Connector	Ref. Distance
-T	MM	Dual ST	2km
-C	MM	Dual SC	2km
-EC	MM	Dual SC	2km
-JM	MM	MT-RJ	2km
-VM	MM	VF-45	2km
-SA2	SM	Dual SC	20km
-SL2	SM	Dual SC	20km
-SL3	SM	Dual SC	30km
-SL4	SM	Dual SC	40km
-SL6	SM	Dual SC	60km
-SL7	SM	Dual SC	70km
-SL9	SM	Dual SC	90km
-SL10	SM	Dual SC	100km
-SL12	SM	Dual SC	120km
-W3515	SM	Bi-Di SC	15~20km
-W5315	SM	Bi-Di SC	15~20km
-W3540	SM	Bi-Di SC	40km
-W5340	SM	Bi-Di SC	40km
-CxxW40	SM	CWDM SC	40km
-CxxW80	SM	CWDM SC	80km

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



FCC Part 15, Class B  
CISPR 22 Class B

### Katron Technologies Inc.

15F-7, No. 79, Sec. 1, Hsin Tai Wu Rd.,  
Hsi-chih, Taipei Hsien, Taiwan.  
Tel: 886-2-2698-3878  
Fax: 886-2-2698-3873  
E-mail: kti@ktinet.com.tw  
URL: http://www.ktinet.com.tw

### KTI Networks Inc.

7400 Harwin Dr., Suite 120 Houston,  
Texas 77036 U.S.A.  
Tel: 713-266-3891  
Fax: 713-914-0555  
E-mail: kti@ktinet.com  
URL: http://www.ktinet.com

Trademarks: All brand names are trademarks or registered trademarks of their respective holders.  
This information is subject to change without prior notice.

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 to 50°C  
-20°C to 60°C (KC-300D-EC, KC-300DM-EC)  
Storage Temperature: -20°C to 80°C  
Relative Humidity: 5% to 95% non-condensing

Weight KC-300D : 210g, KC-300DM : 213g

Dimension 108 x 72.5 x 23 mm (WxDxH)

Operating voltage +5V ~ +12VDC (+/-5%)(Device DC Input)

Power Consumption 2 watts. (max.)

Approval FCC class B, CE class B

## Optical Specifications : KC-300D-X, KC-300DM-X

Model	Connector	Fiber	Wavelength	Tx Power	Sensitivity	Rx Max.
-T	ST Duplex	MMF	1310nm	-19~ -14dBm	-31dBm	-14dBm
-C	SC Duplex	MMF	1310nm	-19~ -14dBm	-31dBm	-14dBm
-EC	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
-SA2	SC Duplex	SMF	1310nm	-15~ -8dBm	-31dBm	-7dBm
-SL2	SC Duplex	SMF	1310nm	-15~ -7dBm	-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
-SL7	SC Duplex	SMF	1310nm	-3~ +3dBm	-37dBm	0dBm
-SL9	SC Duplex	SMF	1310nm	0~ +5dBm	-37dBm	0dBm
-SL10	SC Duplex	SMF	1550nm	-3~ +3dBm	-37dBm	0dBm
-SL12	SC Duplex	SMF	1550nm	0~ +5dBm	-37dBm	0dBm
-W3515	Bi-Di SC	SMF	TX 1310nm RX 1550nm	-14~ -8dBm	-31dBm	0dBm
-W5315	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
-CxxW40	CWDM SC	SMF	Tx 1xx0nm RX 1100-1650nm	-5~ 0dBm	-35dBm	0dBm
-CxxW80	CWDM SC	SMF	Tx 1xx0nm RX 1100-1650nm	0~ +5dBm	-37dBm	0dBm

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