



KC-300TF Series



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

In order to expanding more wire connection through fiber cables, KC-300TF Series enhances features by 10/100Mbps, Auto-Negotiation, half & full duplex through TP. KC300TF series are built in powerful heart by switch base IC, which support extra functions like store-and-forward technology, min. packet length 64 bytes, max. IEEE802.3 packet length 1518 bytes, Vlan tag packet 1522 bytes, Auto MAC address learning and flow control.

Above functions are effective to customers who need to convert different interfaces between two nodes and also can customize the speed' s modes as they need for the opposite site. Making a compatible and convenient installation to the other installed parties is always the best solution to customers. That is KTI' s KC-300TF series can do for all and gets more closer to the generation of fiber to the home (FTTH).

Benefits of Switch Base Media Converter:

- Making more flexible installation in different speed' s modes.
- Making more compatible connection with link partners by different modes setting on board.
- Filtering bad packets and Pocket buffering improve overall network performance.
- Flow control function to prevent packets dropping in traffic congestion.

Key Features:

- Comply with IEEE802.3 10Base-T, IEEE802.3u 100Base-TX/100Base-FX and IEEE802.3x flow control.
- Provide media conversion for TP and fiber optic media types.
- Extend network span from 2km (Multi-Mode) to 40km (Single-Mode).
- 10/100Mbps, auto-negotiation on TP port.
- Supports IEEE802.3 Ethernet frame 64 ~ 1518 bytes and VLAN tagged frame up to 1522 bytes.
- Auto MAC address learning and 4,096 MAC address table entries.
- Supports back-pressure-based flow control on half duplex and pause-frame-based flow control on full duplex
- Store and forward technology.

Specifications:

Standard	IEEE802.3 10Base-T and IEEE802.3u 100Base-Tx 100Base-TX/FX. IEEE802.3x flow control.
TP Port	10/100Mbps , Shielded RJ-45
FX Port	100Base-FX, SC connector
Cables	TP port: Cat. 5 UTP 100meters on 100Base-TX Cat. 3, 4, 5 UTP 100meters on 10Base-T FX Port: Multi-Mode, 62.5/125μm, 2KM Multi-Mode, 50/125μm, 2KM Single-Mode, 9/125μm, 20KM/40KM Single-Fiber, 9/125μm, 20KM
RAM buffer	1Mbit
LEDs	Power, TP link/Act., FX link, TP speed and duplex status
Environment	Operating temperature: -10°C ~ +50°C Storage temperature: -20°C ~ +75°C
Dimension	109.5mm x 74.7mm x 24mm (L. W. H.)
Power	5VDC, 2.5A

Ordering Information:

Model	Fiber Mode	Connector	Max. Distance
KC-300-TFMC	MM	SC	2km
KC-300-TFS20	SM	SC	20km
KC-300-TFS40	SM	SC	40km
KC-300-WDM320	SM	Simplex SC	20km
KC-300-WDM520	SM	Simplex SC	20km

The Specification of Fiber Optical Transceiver:

Mode	Type	Tx Optical Output	Rx Sensitivity	Wavelength	Cable	Max. Distance
Multi-Mode	SC	-19dBm	-32.5dBm	850nm	62.5/125μm	2km
Single-Mode	SC	-15dBm	-31dBm	1300nm	9/125μm	20km
Single-Mode	SC	-5dBm	-31dBm	1300nm	9/125μm	40km

The Specification of Single Fiber Transceiver:

Mode	Type	Tx Optical Output	Rx Sensitivity	Wavelength	Cable	Max. Distance
Single Mode	SC Receptacle	-14 ~-7dBm	-33dBm	1300nm TX 1550nm RX	9/125μm	20km
Single Mode	SC Receptacle	-14 ~-7dBm	-33dBm	1300nm RX 1550nm TX	9/125μm	20km



KTI Networks Inc.
7400 Harwin Dr., Suite 120
Houston, Texas 77036, U.S.A.
Tel: 713-266-3891
Fax: 713-266-3893
E-mail: kti@ktinet.com
URL: <http://www.ktinet.com>

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