



KC-350, KC-351



PoE-PD-enabled 10/100Base-TX to 100Base-FX Media Converters

Product Highlights:

- Full wire speed performance
- Comprehensive configuration options
- Best conversion latency
- Remote Loop back test
- Remote TP link monitoring
- Optional Din-Rail mounting
- Powered by PoE, AC adapter, USB
- Options for Bi-Di communication
- Options for CWDM

KS-1080:
PoE PSE switch



KPOE-100:
PoE PSE mid-span injector



USB-to-DC Plug:
Powered via USB



The 350 series are designed to convert 10Base-T or 100Base-T signals to/from 100Base-FX fiber signals. They are used to extend the connection distance between two Ethernet devices via fiber cable transparently with no performance degradation. The variety of fiber options supported includes not only multimode, short reach up to long reach single mode fibers, but also Bi-Di WDM and CWDM fiber network applications. Because of 802.3af compliance, the converters can draw the power via Cat.5 cable connected to a PoE PSE switch or mid-span injector. This feature makes the converter ideal for remote areas of a network without AC power outlets.

Important media converter functions:

- Smart forwarding which can auto adapt the conversion to get the minimum latency according to the connection speed
- Link fault pass through between two different media cables
- Transparent conversion for 802.1Q tagged packets
- Far end fault function on the fiber connection
- Manual (forced) configuration for the twisted-pair port to support non-auto devices

Advanced media converter functions:

- Support fiber remote loopback test for advanced installation
- Provide remote twisted-pair connection monitoring
- Support Din-rail mounting in Din-rail closet
- Support being powered by PoE via Cat.5 and USB in addition to typical AC power adapter

Specifications:

TP Port	IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3af PD Shielded RJ-45 jack 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-350/351: Power status, TP Port: Link/Act, Speed, Duplex status, FX Ports: Link/Act status, Fiber signal detected KC-351: Remote TP Ports: Link, Speed, Duplex status
Configuration Switches	Accessible settings: KC-350/351: TP mode, TP duplex, TP speed, Link fault pass through KC-351: 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)
Power Input	PoE via Cat.5 on RJ-45 from PSE switch or PoE mid-span injector DC jack via external AC power adapter or USB power via proprietary USB cable



KC-3DR:
Din-Rail mounting bracket



Ordering Informations:

KC-350-X KC-351-X	Fiber Mode	Connector	Ref. Distance
-T	MM	Dual ST	2km
-C	MM	Dual SC	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
-W3515	SM	Bi-Di SC	15-20km
-W5315	SM	Bi-Di SC	15-20km
-CxxW40	SM	CWDM SC	40km

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



FCC Part 15, Class B
CISPR 22 Class B

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PoE IEEE 802.3af PD compliant
Input voltage: 36 ~ 57VDC via Cat.5
Power classification: Class 1
Power reception: via TP RJ-45 Pin 1,2,3,6 or Pin 4,5,7,8

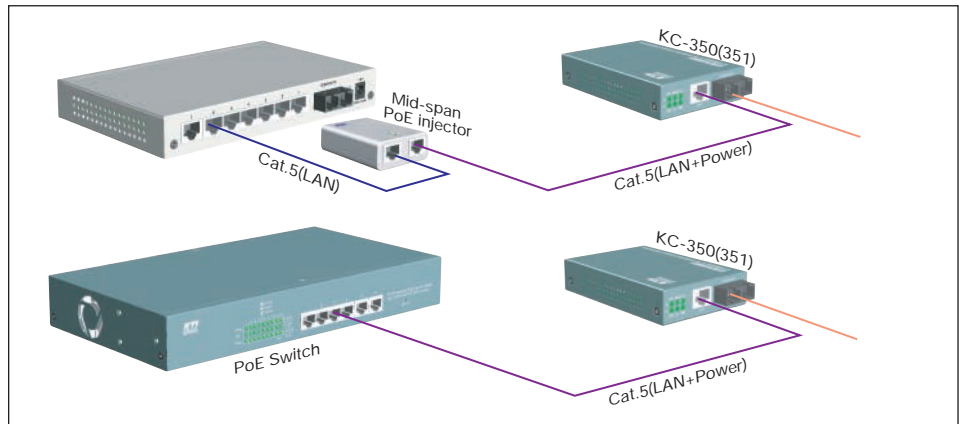
Environment Operating Temperature: -5°C ~ 50°C
Storage Temperature: -20°C ~ 80°C
Relative Humidity: 5% ~ 95% non-condensing

Weight KC-350: 210g, KC-351: 213g

Dimension 108 x 72.5 x 23 mm (WxDxH)

Operating Voltage +7V ~ +57VDC input, consumption: 2Watts max.

Approval FCC Class B, CE Class B, IEC60950-1



Fiber Optical Specifications: KC-350-x, KC-351-x

Model	Connector	FiberCable	Wavelength	Tx Power	Rx Sens.	Rx Max.
-T	ST	Duplex MMF	1310nm	-19 ~ -14dBm	-31dBm	-14dBm
-C	SC	Duplex MMF	1310nm	-19 ~ -14dBm	-31dBm	-14dBm
-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
-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
-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
-CxxW40	CWDM SC	SMF	Tx 1xx0nm RX 1100-1650nm	-5 ~ 0dBm	-35dBm	0dBm

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