

# KSD-103-A / KSD-103-B

*Industrial 3-Port Fast Ethernet  
Media Converter Switches*



KSD-103

# Specifications



KSD-103-A	2 TP ports and 1 FX port
KSD-103-B	1 FX port and 2 TP ports

## Copper Port

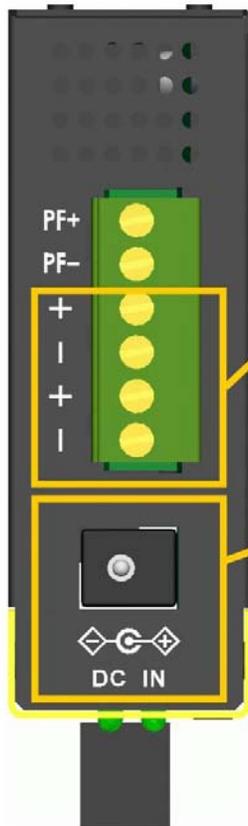
- 10/100 Mbps RJ-45 support
- Auto-negotiation, Auto-MDI/MDI-X
- 802.3x flow control

## Fiber Port

- 100 Mbps full duplex
- MMF or SMF support
- Far End Fault support

- \* **Full Wire Speed Switching Engine**
- \* **Operating Temperature -20 ~ +70°C**
- \* **Industrial-rated EMC**

# Benefit 1: Power Interfaces



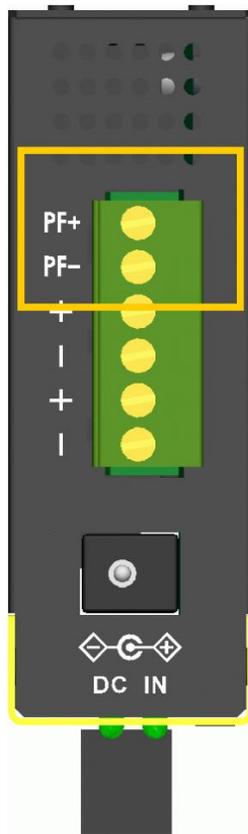
## Terminal block

Support industrial power system

## DC-Jack

Support AC-DC adapter type power

# Benefit 2: Failure Alarm



## Alarm Relay Output

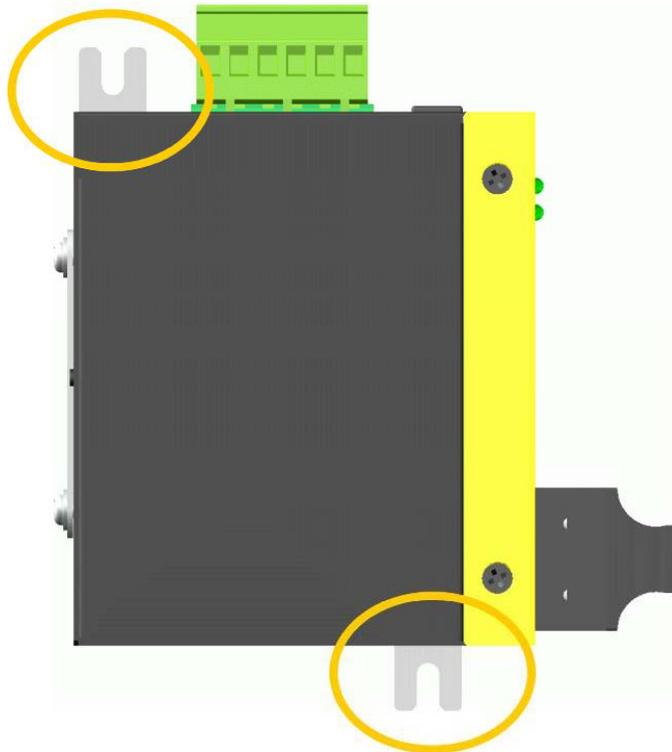
Support external monitoring system

## Alarm Events

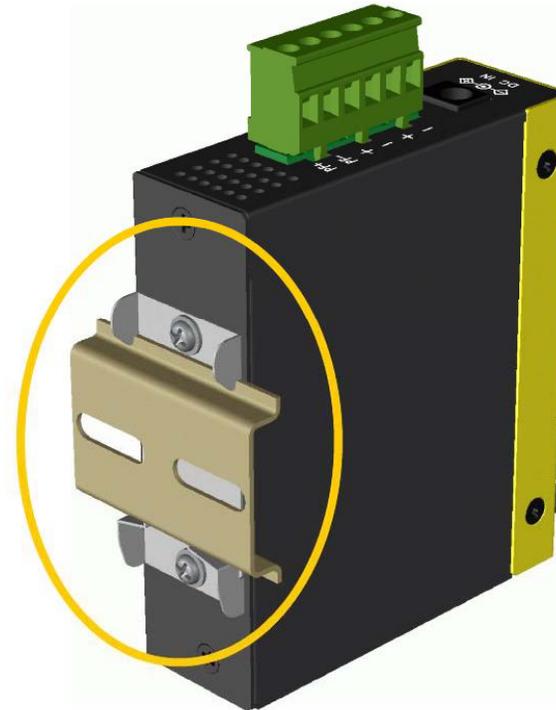
- \* Input power failure
- \* Specific FX port link down alarm

# Benefit 3: Mounting Flexibility

Panel mounting



Din-Rail mounting



# Benefit 4: Industrial Design

## Wide Operating Temperature Range

Typical -20°C ~ 70°C

## Wide Operating Voltage Range

+7 ~ +50VDC

## Industrial Power Interfaces

Industrial screw terminal block and DC-Jack

## Industrial Mounting Support

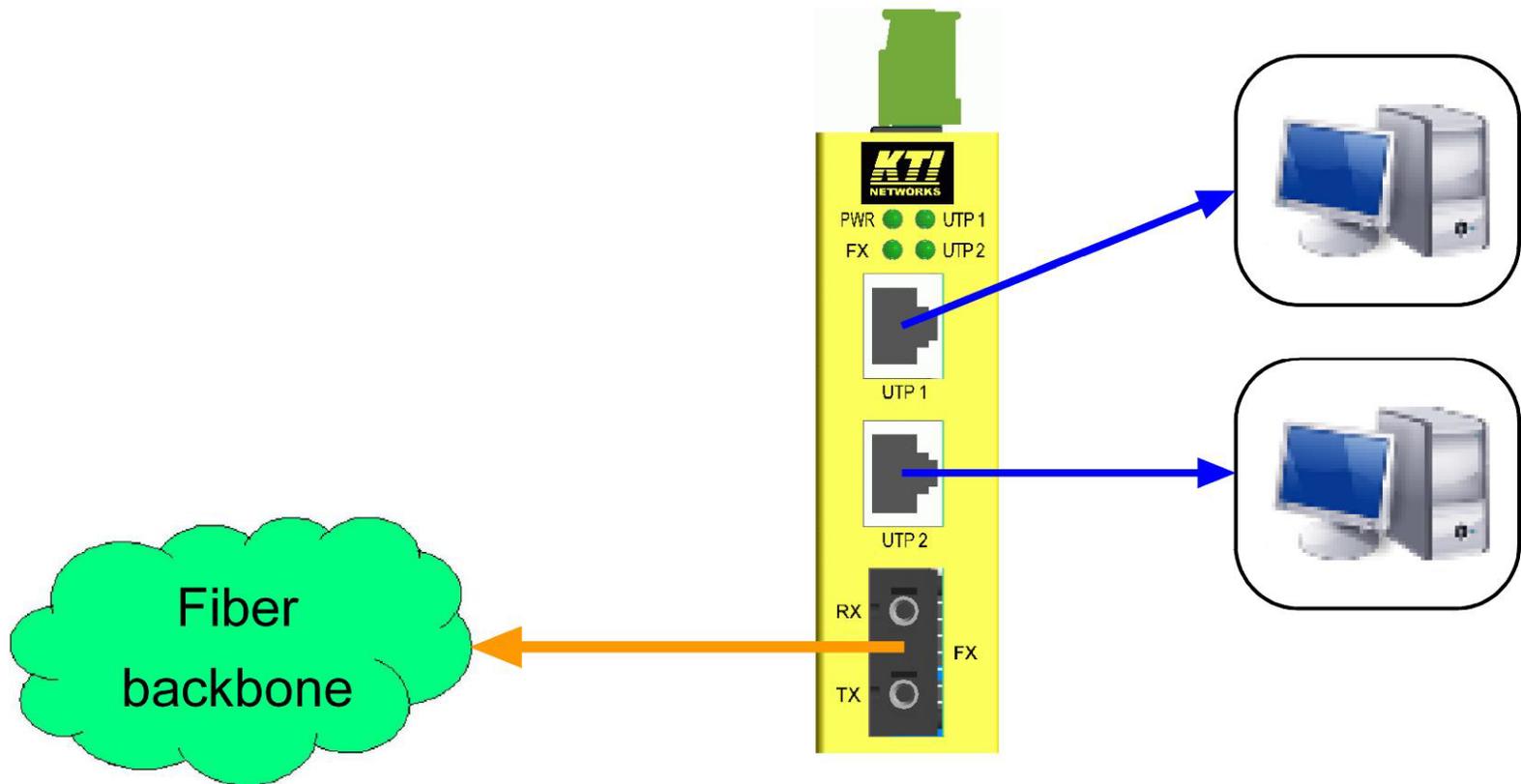
Din-rail mounting, Panel mounting

## EMS & EMI

Industrial-rated Emission and Immunity performance

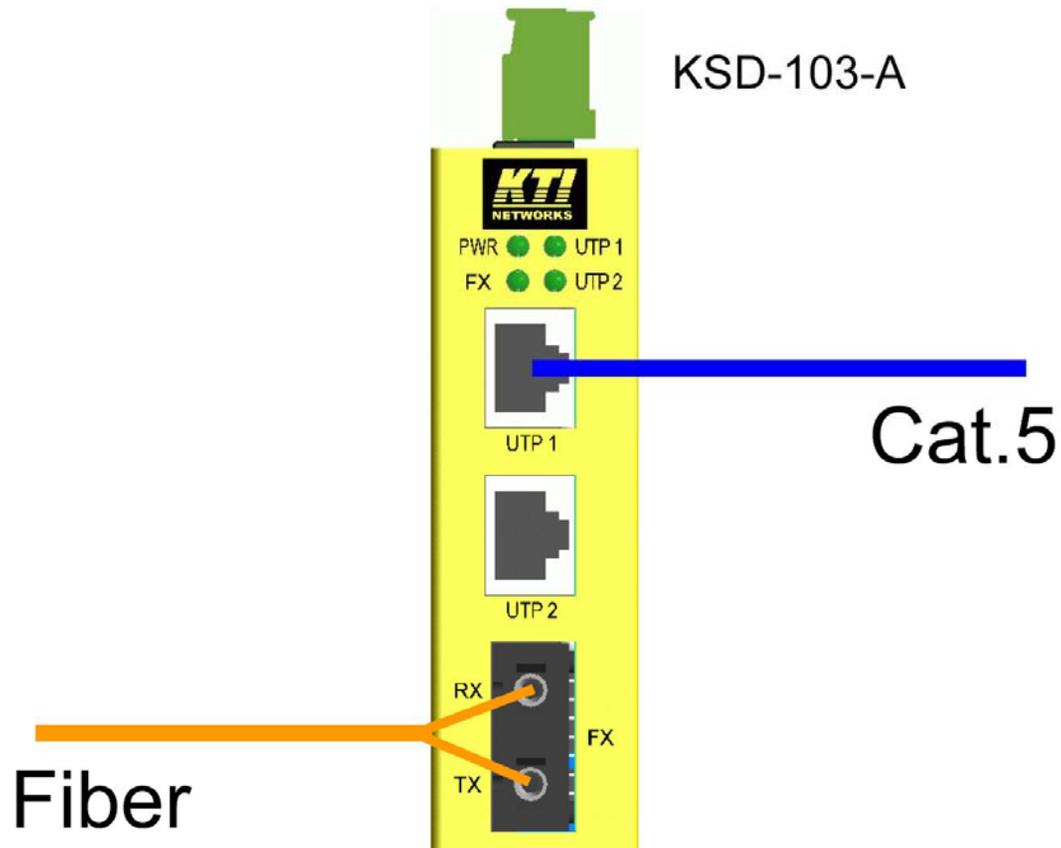
# Application 1: Mini Switch

KSD-103-A



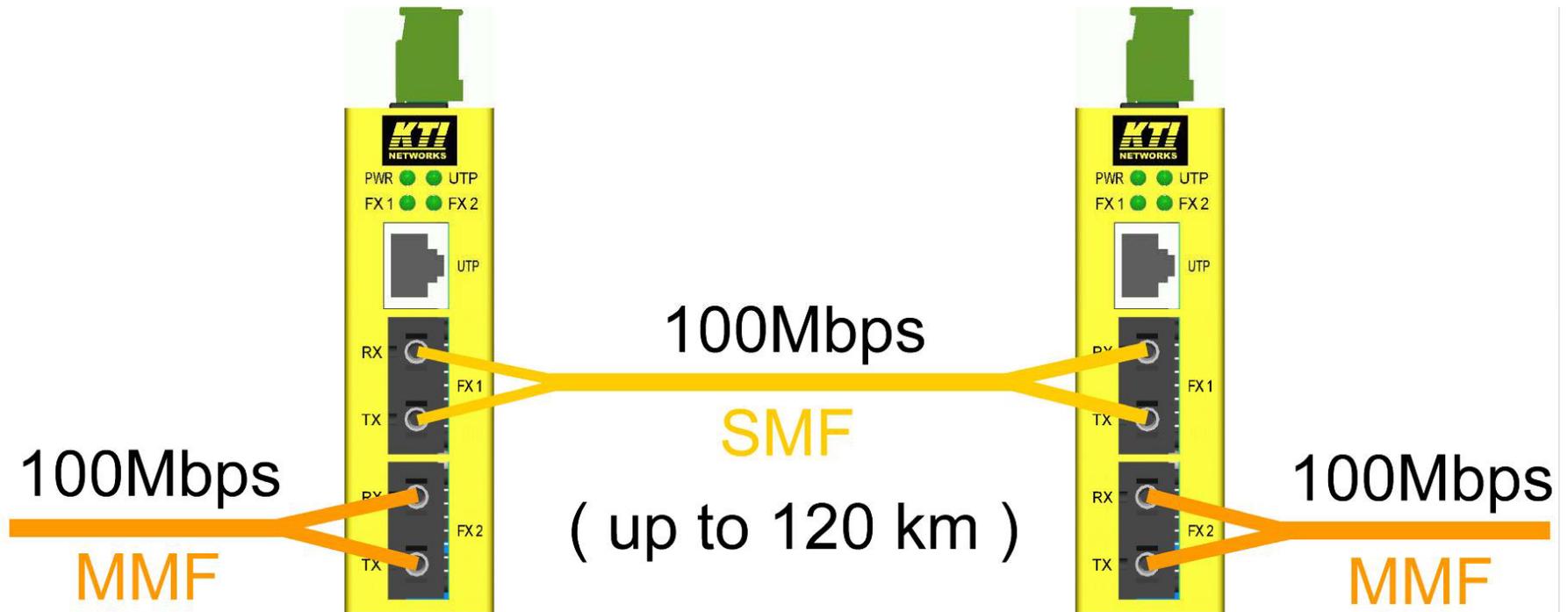
KSD-103

# Application 2: Media Converter

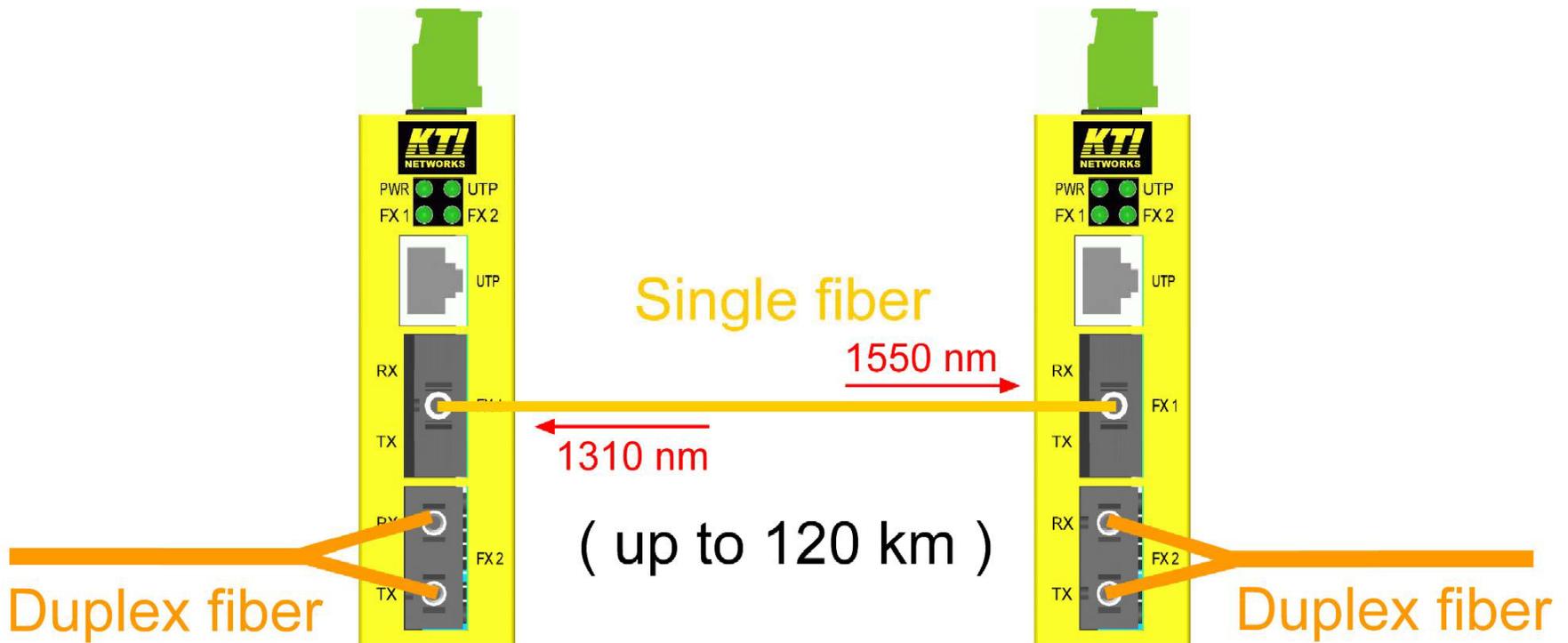


KSD-103

# Application 3: MMF to SMF Conversion

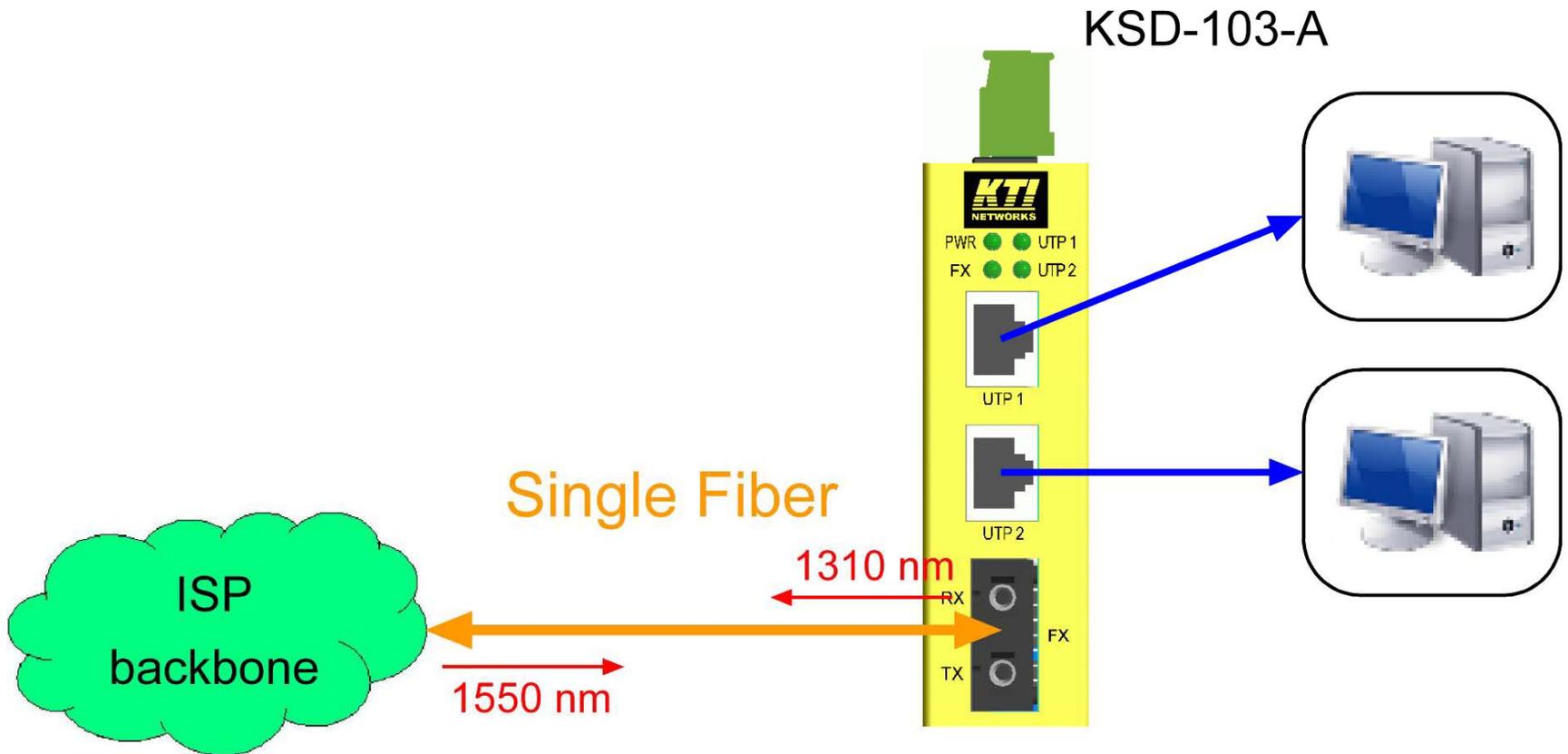


# Application 4: Duplex Fiber to Single Fiber

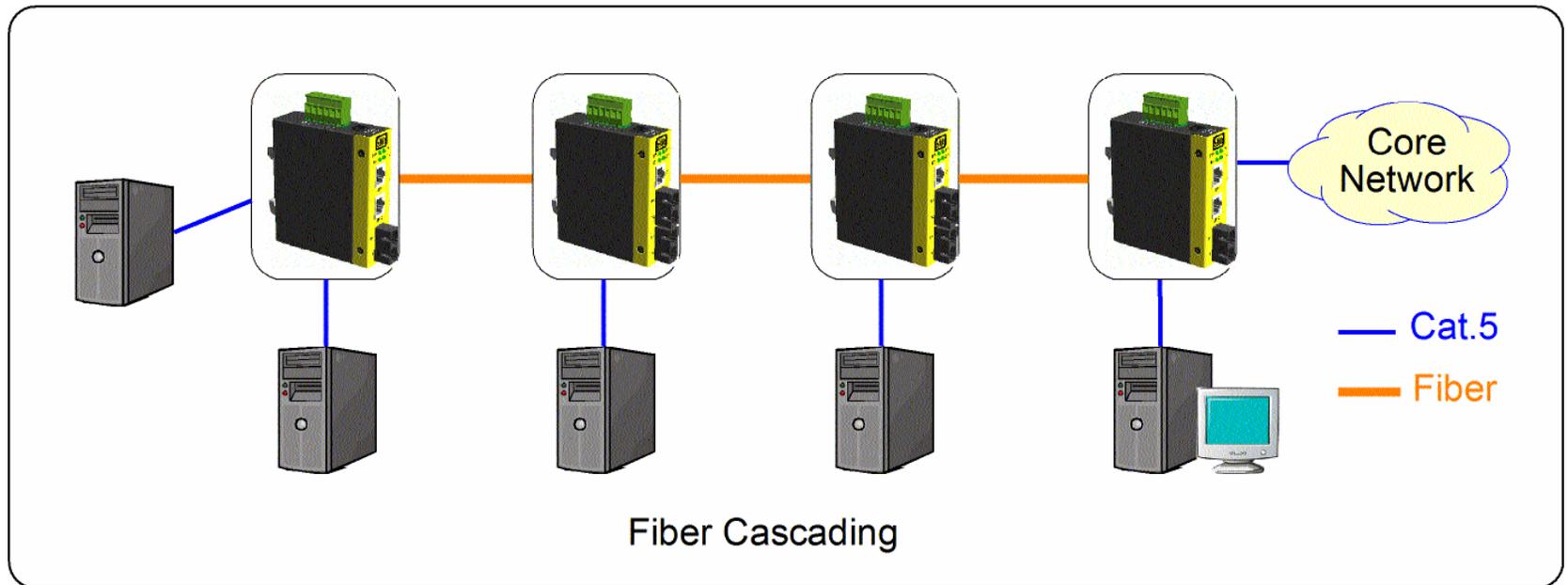


Support duplex fiber to single fiber

# Application 5: FTTH Single Fiber



# Application 6: Industrial Networks



# Application 7: Recommended Power

## Application Note

### Recommended Power Supply for KTI's KSD-103 Series

#### 1. Power Supply Specification

Item Power	Type	Vendor	KSD-103 Series Interface	Rated Input Voltage	Rated Output Voltage	Rated Power	Working Temp. (100% power)	De-rating
MDR-1012	Din-Rail	Meanwell	Terminator Block	85-264V	12V	10W	100%@ -20~60°C	50%@ 70°C
MDR-2012	Din-Rail	Meanwell	Terminator Block	85-264V	12V	20W	100%@ -20~50°C	50%@ 70°C
DR-3012	Din-Rail	Meanwell	Terminator Block	85-264V	12V	24W	100%@ -20~50°C	80%@ 60°C
DR-4512	Din-Rail	Meanwell	Terminator Block	85-264V	12V	42W	100%@ 0~45°C	80%@ -10°C 80%@ 50°C
MDR-6012	Din-Rail	Meanwell	Terminator Block	85-264V	12V	60W	100%@ -20~55°C	60%@ 70°C
AM-0751000X	Adapter	KTI	DC Jack	220-240V	7.5V	7.5W	-10~40°C	—
SA110C	Adapter	KTI	DC Jack	100-240V	7.5V	9W	0~40°C	—

De-rating: The power output efficiency is declined under the specified working temperature.