

UT-0215AI Series

10/100Base - TX to 100Base - FX WDM Industrial Media Converter



UT-0215AI



Product Introduction & Benefits

UT-0215AI Series is 10/100Base-TX to 100Base-FX Industrial Fast Ethernet Media Converter. The UTP port can operation at 10M or 100M application.

UT-0215AI Series is packaged in a special compact IP40 metal case that allows either DIN rail or panel mounting for easy installation at control cabinet. It provides an integrated power supply with a wide range of voltages for worldwide operation. It also offers dual-redundant, reversible polarity 12V DC to 48V DC power supply inputs for high availability applications requiring dual or backup power inputs.

Ordering Information :

UT-0215AI-TS20 : 10/100Base-TX to 100Base-FX Singlemode, Single Fiber, WDM Industrial Media Converter, Transmitter 20km, TX1310nm/RX1550nm, SC Simplex

UT-0215AI-RS20 : 10/100Base-TX to 100Base-FX Singlemode, Single Fiber, WDM Industrial Media Converter, Receiver 20km, RX1310nm/TX1550nm, SC Simplex

UT-0215AI-TS40 : 10/100Base-TX to 100Base-FX Singlemode, Single Fiber, WDM Industrial Media Converter, Transmitter 40km, TX1310nm/RX1550nm, SC Simplex

UT-0215AI-RS40 : 10/100Base-TX to 100Base-FX Singlemode, Single Fiber, WDM Industrial Media Converter, Receiver 40km, RX1310nm/TX1550nm, SC Simplex

Main Features :

- Built-in efficient switching core to implement flow control and reduce broadcast packets
- Standard : IEEE802.3u 100BASE-FX/TX, IEEE802.3 10BASE-T, IEEE802.3x Flow Control.
- 10/100Base-TX can automatically identify the direct-line(MDI) and cross-line(MDIX), is compatible with Various cards, switches, HUB and other Ethernet devices
- It applies a store-and-forward mechanism to avoid packet loss and error frames
- Support wire-speed transmission and full-duplex flow control / half-duplex back pressure mode
- Support jumbo frame up to 9K(cut-through mode)
- 12V to 48V DC or 24V AC Wide power input, redundant power and reverse polarity protection
- -40 to 80°C operating temperature to meet a variety of complex environments
- IP40 protection standard for housing
- Power port and Ethernet port supports ESD protection and EFT protection
- DIN rail and panel mounting for easy installation
- Support single-fiber single-mode
- Support DIP switches for operation mode setting

NWay Auto-negotiation support on RJ-45 Port (UTP Port)



● Standard :	IEEE802.3u 100BASE-FX/TX (Fast Ethernet) IEEE802.3 10BASE-T(Ethernet) IEEE802.3x Flow Control
● Port :	UTP/STP Connector : 1 x RJ45 Type Fiber Optic Connector : 1 x SC Simplex Type
● Design Level :	Industrial grade IP40 design standards
● Access mode :	10/100Mbps
● Wavelength :	Transmitter : TX1310nm/RX1550nm Receiver : RX1310nm/TX1550nm
● Transmission distance :	Fiber Optic : 20- 40km (Single mode) UTP/STP : 100m (Category5/5E or better)
● Conversion mechanism :	Store and Forward mode or Cut-Through mode
● MAC address table :	1K
● Buffer space :	Built in 288Kb RAM for data buffer
● Flow control :	Full duplex : flow control Half duplex : back pressure
● BER :	$<10^{-9}$
● MTBF :	50,000 hours
● LED indicator :	Power Supply : PWR 1, PWR 2 UTP Port : POE1, L/A, 100M Fiber Port : F1
● Power supply :	Power Input Range : 12 ~ 48VDC/24VAC, 6-PIN Terminals, Redundant dual power
● Transmit Power (dBm) :	-7 ~ -14
● Receive Sensitivity (dBm) :	24
● Power consumption :	<3W
● Operating temperature :	-40~80°C
● Operating humidity :	5%~90% non-condensing
● Storage Temperature :	-40~85°C
● Storage humidity :	5%~90% non-condensing
● Dimensions :	140mm (W)×110mm (D)×40mm (H)
● Weight :	0.8kg

Applications :

