

# UT-0216AI Series

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



UT-0216AI

## Product Introduction & Benefits

UT-0216AI Series is 10/100Base-TX to 100Base-FX Industrial Fast Ethernet Media Converter. The UTP port can operation at 10M or 100M application.

UT-0216AI 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-0216AI** : 10/100Base-TX to 100Base-FX Multimode Industrial Media Converter, 2km

**UT-0216AI-SM20** : 10/100Base-TX to 100Base-FX Singlemode Industrial Media Converter, 20km

**UT-0216AI-SM40** : 10/100Base-TX to 100Base-FX Singlemode Industrial Media Converter, 40km

**UT-0216AI-SM60** : 10/100Base-TX to 100Base-FX Singlemode Industrial Media Converter, 60km

**UT-0216AI-SM80** : 10/100Base-TX to 100Base-FX Singlemode Industrial Media Converter, 80km

**UT-0216AI-SM100** : 10/100Base-TX to 100Base-FX Singlemode Industrial Media Converter, 100km

**UT-0216AI-SM120** : 10/100Base-TX to 100Base-FX Singlemode Industrial Media Converter, 120km

## 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 dual-fiber multimode and single-mode
- Support DIP switches for operation mode setting



● <b>Standard :</b>	IEEE802.3u 100BASE-FX/TX (Fast Ethernet) IEEE802.3 10BASE-T(Ethernet) IEEE802.3x Flow Control
● <b>Port :</b>	UTP/STP Connector : 1 x RJ45 Type Fiber Optic Connector : 1 x SC Type
● <b>Design Level :</b>	Industrial grade IP40 design standards
● <b>Access mode :</b>	10/100Mbps
● <b>Wavelength :</b>	1310 and 1550nm
● <b>Transmission distance :</b>	Fiber Optic : 2km (Multimode) 20 - 120km (Single mode) UTP/STP : 100m (Category5/5E or better)
● <b>Conversion mechanism :</b>	Store and Forward mode or Cut-Through mode
● <b>MAC address table :</b>	1K
● <b>Buffer space :</b>	Built in 288Kb RAM for data buffer
● <b>Flow control :</b>	Full duplex : flow control Half duplex : back pressure
● <b>BER :</b>	$<10^{-9}$
● <b>MTBF :</b>	50,000 hours
● <b>LED indicator :</b>	Power Supply : PWR 1, PWR 2 UTP Port : POE1, L/A, 100M Fiber Port : F1
● <b>Power supply :</b>	Power Input Range : 12 ~ 48VDC/24VAC, 6-PIN Terminals, Redundant dual power
● <b>Power consumption :</b>	<3W
● <b>Operating temperature :</b>	- 40~80°C
● <b>Operating humidity :</b>	5%~90% non-condensing
● <b>Storage Temperature :</b>	- 40~85°C
● <b>Storage humidity :</b>	5%~90% non-condensing
● <b>Dimensions :</b>	140mm (W)×110mm (D)×40mm (H)
● <b>Weight :</b>	0.8kg

## Applications :

