QUESTTEL
Broadcast Systems

10/100/1000M Dual Fiber Media Converter

L-1000IP-TRX

User Manual

Description

QuestTel 10/100/1000M Ethernet media converter adopts switching technology to fulfill media conversion. It complies with IEEE802.3z and IEEE802.3ab standards, and supports two types of media network connections: 10/100/1000Base-T and 1000Base-SX/LX. It inter-converts electrical signals of 10/100/1000Base-T twisted pairs with optical signals of 1000Base-SX. It extends the network transmission distance from 100m to 80km(declare before order) via fiber optical cable. It supports transmission in multi-mode dual fiber; single-mode dual fiber.

Features

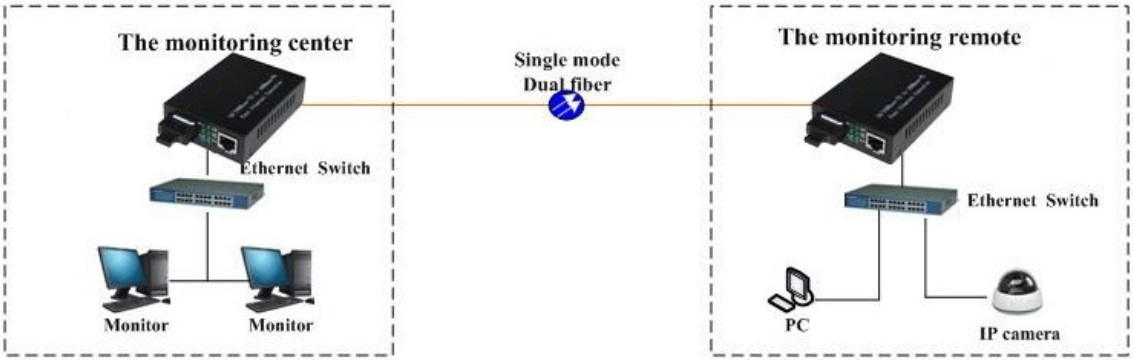
-Supporting inter-conversion between 10/100/1000Base-TX and 1000Base-SX
-Supporting full-duplex and half-duplex and its auto-sensed
-Supporting automatic cross connection of twisted pair interfaces, facilitating system commissioning and installation
-Supporting the transmission of extra-long VLAN packets
-Supporting Quality of Service (QoS) and ensuring the transmission of VoIP packets;
-Supporting STP to form a redundant network

Technical Datasheet

TECHINCAL SPECIFICATIONS

Parameter	Specifications	
Standard Protocol	IEEE802.3ab 1000Base-T	
	IEEE802.3z 1000Base-SX/LX Gigabit ethernet	
	IEEE802.1qVLAN,IEEE802.1p QoS	
	IEEE802.1d Spanning Tree	
Band Width	RJ 45 Port: 10/100/1000Mbps	Optical Port: 1.25G
Switching	Support Store & Forward	
Operation Mode	Full /Half duplex mode	
Connectors	UTP：RJ-45	Fiber connector: SC/UPC
Operation Mode	Full /Half duplex mode	
LED Indicators	POWER, FPL,10/100/1000, FRX, TRX , FDX.	
Power Supply	Internal	AC100-240V/50~60Hz
		DC 5V 1.2A
	Output Voltage	uncertainty ±3% (without load)
	Output Voltage:	Continuous current ≥ 90% nominal current; ±5% nominal DC Voltage; Vpp ≤ 150mV
	Voltage surge protection	Intergrates the voltage surge protection (arrester) equipment.
Environmental Parameters	Work Temperature	-5℃~+55℃
	Storage Temperature	-40℃~70℃
	Humidity	5%~90% non-condensing
TP Cable	Cat5 UTP cable (the max distance up to 100m)	
Fiber Cable	Single Mode	
Size	94mm*70mm*25mm(L*W*H) (External power supply)	

Application Drawing



LED INDICATORS

LED indicator lamp	Status	Explanation
FX Link/Act	On	Connection status display for fiber link. “ON” indicates that Fiber link is in correct connection.
	Blink	Active status display of fiber link “Blink” indicates packet goes through Fx end.
TP Link/Act	On	Connection status display for electric link. “ON” indicates that electric link is in correct connection.
	Blink	Active status display of electric link “Blink” indicates packet goes through Tx end.
DUP	On	Transceiver works in the full duplex mode.
	Off	Transceiver works in the half duplex mode.
PWR	On	Power is on and normal.
SD	On	Fiber signal is detected.
1000	On	Transfer rate of electric interface is 1000Mbps.
	Off	Rate of electric interface is 1000Mbps