

TEK

Transmitter: FO64-X-XDT(XX)

Receiver: FO64-X-XDR(XX)



9-64 Channel Video Optic Transceiver

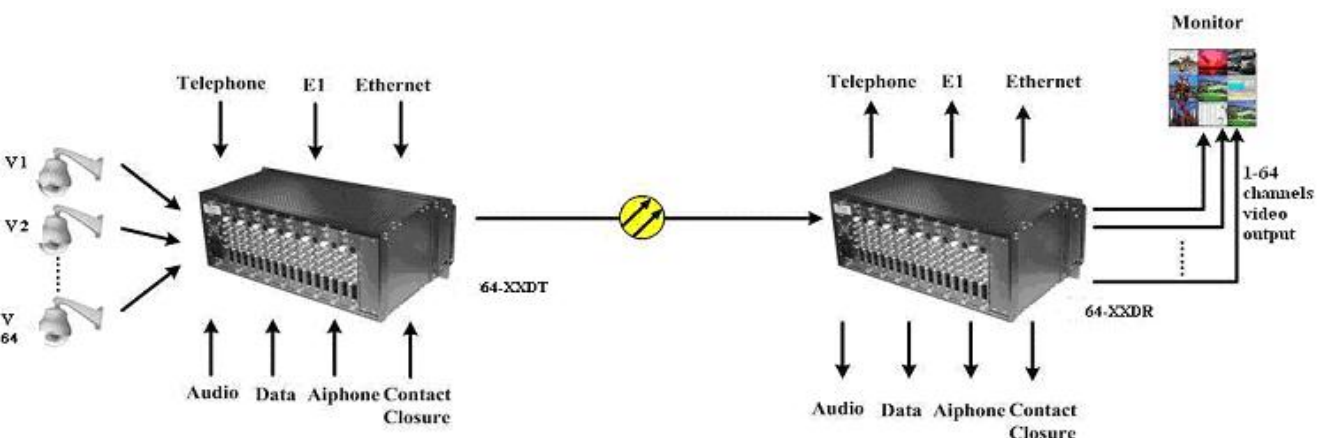
FO64-X-XD series can transmit 9-64 channel composite video, 1 to 32 channel duplex audio, or 1 to 32 channel of duplex data/ contact closure signal or in any combination over one fiber; and it can provide option of 1 to 4 channel 10M/100M Ethernet / E1, 1 to 8 channel telephone/Intercom



Features

- Exceeds the RS250C standard for SNR, DG and DP
- Bandwidth up to 6 MHz, SNR≥67dB
- The video quality is independent of transmission distance and up to the maximum optical loss.
- 8/10 bit digital PCM video coding
- Compatible with NTSC, PAL and SECAM
- Distance option of up to 120KM is possible
- Super optical dynamic range, 0Km is not saturated
- Supported by TEK network management system
- Up to 32 RJ45 ports with option of plug-in interfaces
- 24- bit digital audio, 75dB SNR
- High-speed optical fiber digital transmission technology
- RS232, RS422, RS485 or Manchester data
- Data transmission rate DC to256kbps
- Power supply, fiber link, data state indication
- Surface mount technology (SMT)
- Rack-mount/stand-alone/19" 1U Rack mount Enclosure

Typical Applications



Specifications

Video

Video channel	9-64
Video format	NTSC, PAL, SECAM
Voltage	1V _{p-p} , 75Ω
Max-input voltage	1.5V _{p-p} , 75Ω
Bandwidth	6 MHz
Differential gain	≤1%
Differential phase	≤1°
Video SNR:	≥67 dB
Encoding	8/10 bit PCM

Audio

Frequency Response	50Hz - 20kHz
Audio SNR	≥75dB
Audio coding	24 BIT digital audio
Sample resolution	48k

Data

Data type	RS232,RS422,RS485, Manchester
Baud rate	0-115.2 kbps
Bit error rate	10 ⁻⁹
Optional Signals	Contact Closure, E1, Telephone, AIPHONE

Ethernet

Standard	IEEE802.3
Data rate	10M/100M adaptive

Environment

MTBF	>100,000 hours
Operating temperature	-30°C to 74°C
Storage temperature	-40°C to 85°C
Humidity	0~95% non-condensing

Connector

Video	BNC
Optical	FC / ST / SC
Data	RJ45 / Terminal Block

Electrical and Mechanical

Power	100-240VAC
	Rack mount: from FO18 chassis
Dimensions	Standalone:486*177*221mm
Weight	10KG
No. of rack slots	18
LED Indicators	Power, Fiber link, Video, Data.

Optical Power Budget

Fiber type	Transceiver Type	Receiver Type	Optical Power Budget (dB)	Transmission Distance (km)
Single mode	FO64-X-XDT(XX)-20KM-FC-S-A	FO64-X-XDR(XX)-20KM-FC-S-A	10	20
Single mode	FO64-X-XDT(XX)-40KM-FC-S-A	FO64-X-XDR(XX)-40KM-FC-S-A	15	40
Single mode	FO64-X-XDT(XX)-60KM-FC-S-A	FO64-X-XDR(XX)-60KM-FC-S-A	21	60
Single mode	FO64-X-XDT(XX)-80KM-FC-S-A	FO64-X-XDR(XX)-80KM-FC-S-A	29	80