FT4X0DR Series

OT Systems

10-bit Digital 4-ch Video with 1 or 2 Reverse Data

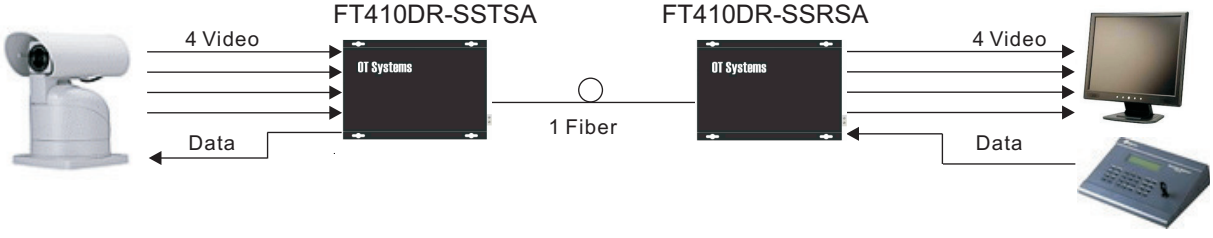
The FT4X0DR series supports optical transmission of high-quality 10-bit PCM coded video with reverse data through one fiber either in multimode or singlemode.

It provides a cost-effective solution for the transmission of four-channel video together with either one or two data channel(s). Either standalone or card module is available for different installation requirements.

Features

- Four-channel non-compressed 10-bit digital video transmission
- No video degradation over max. operating distance
- Signal to noise ratio better than 65 dB
- Supports NTSC, PAL & SECAM video systems
- Gold plated BNC connector
- Supports one or two reverse data
- Supports multi-protocol data in RS232, RS422 & RS485(2 or 4-wire) Tri-state formats
- External access for data format selection via DIP switches
- Laser diode for optical transmission
- Optimum sensitivity for power budget concerns
- Excellent suppression of EMI & RFI and elimination of ground loop
- Adjustment and maintenance free
- No setup just plug-and-play
- Hot-swappable card modules
- Duplicated LED indicators on the front and rear of the unit for the convenience of observation
- Transient voltage protection on power supply and all signal inputs & outputs
- Robust design for harsh environment applications
- Standalone or card module

Typical Application



FT4X0DR Series

Ordering Information

Model	Description	No. of Fibers (Wavelengths)	Optical Power Budget	Max. Distance
	MULTIMODE (62.5/125 um)			
FT410DR-SMT FT410DR-SMR	4 Video Transmitter/1 Data Receiver 4 Video Receiver/1 Data Transmitter	1 (1310/1550 nm)	23 dB	2 km
FT420DR-SMT FT420DR-SMR	4 Video Transmitter/2 Data Receiver 4 Video Receiver/2 Data Transmitter			
	SINGLEMODE (9/125 um)			
FT410DR-SST FT410DR-SSR	4 Video Transmitter/1 Data Receiver 4 Video Receiver/1 Data Transmitter	1 (1310/1550 nm)	17 dB	40 km
FT420DR-SST FT420DR-SSR	4 Video Transmitter/2 Data Receiver 4 Video Receiver/2 Data Transmitter			
FT410DR-SSTL FT410DR-SSRL	4 Video Transmitter/1 Data Receiver 4 Video Receiver/1 Data Transmitter	1 (1310/1550 nm)	24 dB	60 km
FT420DR-SSTL FT420DR-SSRL	4 Video Transmitter/2 Data Receiver 4 Video Receiver/2 Data Transmitter			

Accessories: FT-C18. 19" rack mount chassis (purchased separately) for housing card modules
FT-PA/12V. 12VDC power adapter included for standalone (US, European, UK or Australian power plug)

Options: Model numbers specified above are for Card Modules, please add '***SA***' for Standalone. eg. FT410DR-SMT***SA***
ST type connector is standard. For FC type, specify '***F***' in the model number. Eg. FT410DR-***F***MT

NOTES: (1) Transmission distance will suffer if additional losses are introduced by the optical connectors, fusions, splices and the fibers within the network.
(2) Operating distance of multimode is limited by the characteristics of the fiber bandwidth.
(3) Power adaptor is manufactured by third party and is supplied with fitted screw-terminal output cables.
(4) Please feel free to consult factory for any special requirement and customization

Specifications

Video

No. of Channels:	4
Bandwidth:	6.5MHz per channel
Format:	PAL / NTSC / SECAM
Input / Output:	1.0 Vp-p, 75 ohms
Differential Gain:	< 1% typical
Differential Phase:	< 1° typical
Signal-to-Noise Ratio:	> 65dB

Data

No. of Channels:	1
Data Direction:	Reverse
Data Interface:	DIP switch-selectable RS232, RS422, RS485(2 or 4-wire) Tri-state
Data Format:	MPD (Manchester, Bi-phase, etc)
Data Rate:	0~256Kbps

Connectors

Optical:	ST (standard), FC
Video:	BNC
Data:	7-pin screw terminal
Power:	SA: 2-pin screw terminal Card: Futurebus connector

Electrical and Mechanical

Power:	SA: 12VDC @ 4.8W Card: From FT-C18 chassis
Dimensions (HxWxD):	SA: 30(50*) x 156 x 212mm Card: 154 x 20.4(41*) x 212mm
Weight:	SA: 0.75(0.97*)kg Card type: 0.30(0.45*)kg
No. of rack slots:	1 (2*)
LED Indicators:	Power, Video per channel, Optical carrier detected, Data Tx & Rx
*Specifications of FT420DR	

Environmental

Operating Temp.:	-40°C to +75°C
Storage Temp.:	-40°C to +85°C
Relative Humidity:	0 to 95% non-condensing
MTBF:	> 100,000 hours

ISO 9001:2000 FM 88638

Lifetime Warranty