

# FT4X0DF Series

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



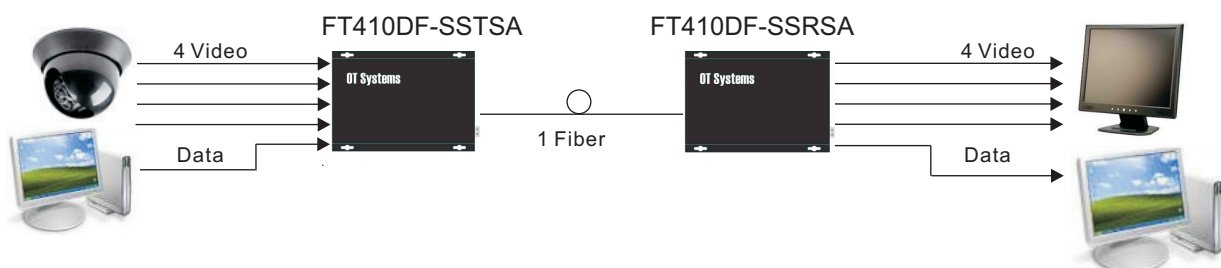
The FT4X0DF series supports optical transmission of high-quality 10-bit PCM coded video with forward data through one fiber either in multimode or singlemode.

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 forward 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



# FT4X0DF Series

## Ordering Information

Model	Description	No. of Fibers (Wavelengths)	Power	Distance			
<b>MULTIMODE (62.5/125 <math>\mu</math>m)</b>							
FT410DF-SMT FT410DF-SMR	4 Video Transmitter/1 Data Transmitter 4 Video Receiver/1 Data Receiver	1 (1310 nm)	23 dB	2 km			
FT420DF-SMT FT420DF-SMR	4 Video Transmitter/2 Data Transmitter 4 Video Receiver/2 Data Receiver						
<b>SINGLEMODE (9/125 <math>\mu</math>m)</b>							
FT410DF-SST FT410DF-SSR	4 Video Transmitter/1 Data Transmitter 4 Video Receiver/1 Data Receiver				1 (1310 nm)	17 dB	40 km
FT420DF-SST FT420DF-SSR	4 Video Transmitter/2 Data Transmitter 4 Video Receiver/2 Data Receiver						
FT410DF-SSTL FT410DF-SSRL	4 Video Transmitter/1 Data Transmitter 4 Video Receiver/1 Data Receiver	1 (1310 nm)	24 dB	60 km			
FT420DF-SSTL FT420DF-SSRL	4 Video Transmitter/2 Data Transmitter 4 Video Receiver/2 Data Receiver						
<b>Accessories:</b> 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)							
<b>Options:</b> Model numbers specified above are for Card Modules, please add ' <b>SA</b> ' for Standalone. eg. FT410DF-SMT <b>SA</b> ST type connector is standard. For FC type, specify ' <b>F</b> ' in the model number. Eg. FT410DF- <b>FMT</b>							

- 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

<b>Video</b> 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		<b>Connectors</b> Optical: ST (standard), FC Video: BNC Data: 7-pin screw terminal Power: SA: 2-pin screw terminal Card: Futurebus connector	
<b>Data</b> No. of Channels: 1 or 2 Data Direction: Forward 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		<b>Electrical and Mechanical</b> 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 FT420DF	
		<b>Environmental</b> 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	



**Lifetime Warranty**