

FT8X0DF Series

10-bit Digital 8-ch Video with 1 or 2 Forward Data



The FT8X0DF series supports optical transmission of high-quality 10-bit PCM coded video with forward data through one fiber either in multimode or singlemode.

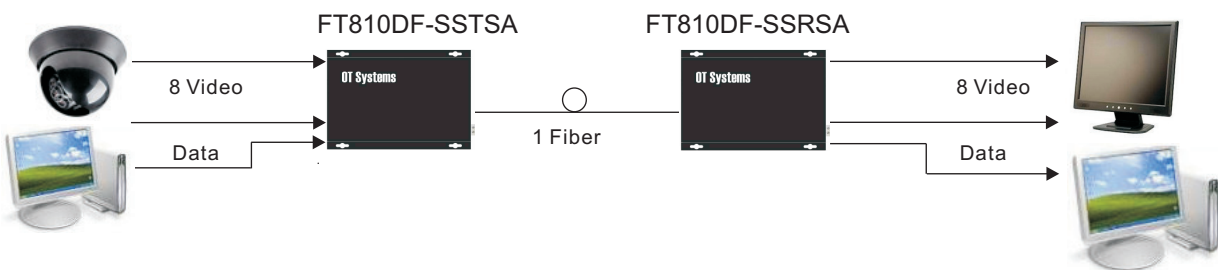
It provides a cost-effective solution for the transmission of eight-channel video together with either one or two data channel(s). Either standalone or card module is available for different installation requirements.

Features

- Eight-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

10-bit Digital Video

Typical Application



FT8X0DF Series

Ordering Information

Model	Description	No. of Fibers (Wavelengths)	Optical Power Budget	Max. Distance			
MULTIMODE (62.5/125 μm)							
FT810DF-SMT FT810DF-SMR	8 Video Transmitter/1 Data Transmitter 8 Video Receiver/1 Data Receiver	1 (1310 nm)	23 dB	1 km			
FT820DF-SMT FT820DF-SMR	8 Video Transmitter/2 Data Transmitter 8 Video Receiver/2 Data Receiver						
SINGLEMODE (9/125 μm)							
FT810DF-SST FT810DF-SSR	8 Video Transmitter/1 Data Transmitter 8 Video Receiver/1 Data Receiver				1 (1310 nm)	17 dB	40 km
FT820DF-SST FT820DF-SSR	8 Video Transmitter/2 Data Transmitter 8 Video Receiver/2 Data Receiver						
FT810DF-SSTL FT810DF-SSRL	8 Video Transmitter/1 Data Transmitter 8 Video Receiver/1 Data Receiver	1 (1310 nm)	24 dB	60 km			
FT820DF-SSTL FT820DF-SSRL	8 Video Transmitter/2 Data Transmitter 8 Video Receiver/2 Data Receiver						
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. FT810DF-SMT SA ST type connector is standard. For FC type, specify ' F ' in the model number. Eg. FT810DF- 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	Connectors
No. of Channels: 8	Optical: ST (standard), FC
Bandwidth: 6.5MHz per channel	Video: BNC
Format: PAL / NTSC / SECAM	Data: 7-pin screw terminal
Input / Output: 1.0 Vp-p, 75 ohms	Power: SA: 2-pin screw terminal
Differential Gain: < 1% typical	Card: Futurebus connector
Differential Phase: < 1° typical	
Signal-to-Noise Ratio: > 65dB	
Data	Electrical and Mechanical
No. of Channels: 1 or 2	Power: SA: 12VDC @ 6.0W
Data Direction: Forward	Card: From FT-C18 chassis
Data Interface: DIP switch-selectable RS232, RS422, RS485(2 or 4-wire) Tri-state	Dimensions (HxWxD): SA: 50 x 156 x 212mm
Data Format: MPD (Manchester, Bi-phase, etc)	Card: 154 x 41 x 212mm
Data Rate: 0~256Kbps	Weight: SA: 0.97kg
	Card type: 0.45kg
	No. of rack slots: 2
	LED Indicators: Power, Video per channel, Optical carrier detected, Data Tx & Rx
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



Lifetime Warranty