

FT1X0DB Series

OT Systems

10-bit Digital 1-ch Video with 1 or 2 Bi-directional Data



The FT1X0DB series supports optical transmission of high-quality 10-bit PCM coded video with bi-directional data through one fiber either in multimode or singlemode.

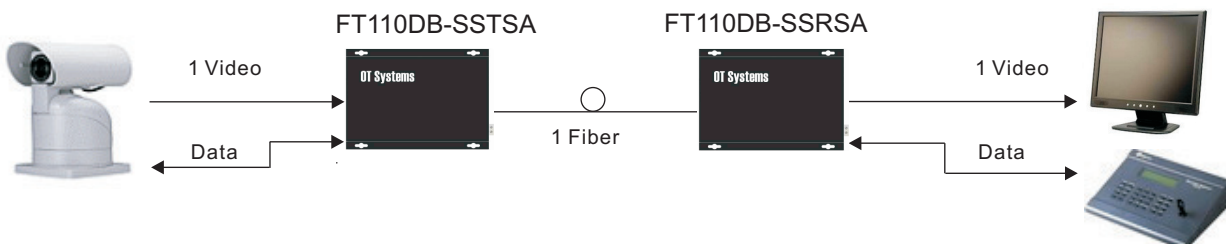
It provides a cost-effective solution for the transmission of one-channel video together with either one or two data channel(s). Either standalone or card module is available for different installation requirements.

Features

- 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 bi-directional 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



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Ordering Information

Model	Description	No. of Fibers (Wavelengths)	Optical Power Budget	Max. Distance
MULTIMODE (62.5/125 μm)				
FT110DB-SMT FT110DB-SMR	1 Video Transmitter/1 Data Transceiver 1 Video Receiver/1 Data Transceiver	1 (1310/1550 nm)	23 dB	4 km
FT120DB-SMT FT120DB-SMR	1 Video Transmitter/2 Data Transceiver 1 Video Receiver/2 Data Transceiver			
SINGLEMODE (9/125 μm)				
FT110DB-SST FT110DB-SSR	1 Video Transmitter/1 Data Transceiver 1 Video Receiver/1 Data Transceiver	1 (1310/1550 nm)	17 dB	40 km
FT120DB-SST FT120DB-SSR	1 Video Transmitter/2 Data Transceiver 1 Video Receiver/2 Data Transceiver			
FT110DB-SSTL FT110DB-SSRL	1 Video Transmitter/1 Data Transceiver 1 Video Receiver/1 Data Transceiver	1 (1310/1550 nm)	24 dB	60 km
FT120DB-SSTL FT120DB-SSRL	1 Video Transmitter/2 Data Transceiver 1 Video Receiver/2 Data Transceiver			
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. FT110DB-SMT SA ST type connector is standard. For FC type, specify ' F ' in the model number. Eg. FT110DB- 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

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Specifications

Video No. of Channels: 1 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		Connectors Optical: ST (standard), FC Video: BNC Data: 7-pin screw terminal Power: SA: 2-pin screw terminal Card: Futurebus connector	
Data No. of Channels: 1 or 2 Data Direction: Bi-directional 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		Electrical and Mechanical Power: SA: 12VDC @ 3.6(4.8*)W Card: From FT-C18 chassis Dimensions (HxWxD): SA: 30 x 156 x 212mm Card: 154 x 20.4 x 212mm Weight: SA: 0.65kg Card type: 0.20kg No. of rack slots: 1 LED Indicators: Power, Video, Optical carrier detected, Data Tx & Rx	
		*Specifications of FT120DB	
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