FT4X0DB Series

OT Systems

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







The FT4X0DB series supports optical transmission of high-quality 10-bit PCM coded video with bi-directional data through one fiber either in multimode or singlemode.

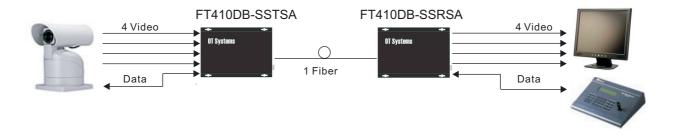
It provides a cost-effective solution for the transmission of four-channel video together with either one or two data channel(s). Either standalone or card module is available for different installation requirements.

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 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

Typical Application



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Ordering Information

Model	Description	No. of Fibers (Wavelengths)	Optical Power Budget	Max. Distance		
MULTIMODE (62.5/125 um)						
FT410DB-SMT FT410DB-SMR FT420DB-SMT	4 Video Transmitter/1 Data Transceiver 4 Video Receiver/1 Data Transceiver 4 Video Transmitter/2 Data Transceiver	1 (1310/1550 nm)	23 dB	2 km		
FT420DB-SMR 4 Video Receiver/2 Data Transceiver SINGLEMODE (9/125 um)						
FT410DB-SST FT410DB-SSR FT420DB-SST FT420DB-SSR	4 Video Transmitter/1 Data Transceiver4 Video Receiver/1 Data Transceiver4 Video Transmitter/2 Data Transceiver4 Video Receiver/2 Data Transceiver	1 (1310/1550 nm)	17 dB	40 km		
FT410DB-SSTL FT410DB-SSRL FT420DB-SSTL FT420DB-SSRL	4 Video Transmitter/2 Data Transceiver	1 (1310/1550 nm)	24 dB	60 km		
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)						

Model numbers specified above are for Card Modules, please add 'SA' for Standalone. eg. FT410DB-SMTSA Options:

ST type connector is standard. For FC type, specify ' \emph{F} in the model number. Eg. FT410DB- \emph{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: Bandwidth: Format: Input / Output: Differential Gain:	4 ≧6MHz per channel PAL / NTSC / SECAM 1.0 Vp-p, 75 ohms < 1% typical < 1° typical > 65dB	Optical: Video: Data: Power:	ST (standard), FC BNC 7-pin screw terminal SA: 2-pin screw terminal Card: Futurebus connector
Differential Phase: Signal-to-Noise Ratio:		Electrical and Mechanical	
Data No. of Channels: Data Direction: Data Interface: Data Format: Data Rate:	1 or 2 Bi-directional DIP switch-selectable RS232, RS422, RS485(2 or 4-wire) Tri-state MPD (Manchester, Bi-phase, etc) 0~256Kbps	Power: Dimensions (WxHxD): Weight: No. of rack slots: LED Indicators: *Specifications of FT420DB	SA: 12VDC @ 5.4W Card: From FT-C18 chassis SA: 156 x 30.5(50.5*) x 223mm Card: 148 x 20.4(41.4*) x 213mm SA: 0.58(0.8*)kg Card type: 0.25(0.32*)kg 1 (2*) Power, Video per channel, Optical carrier detected, Data Tx & Rx
		Environmental	
FC 150 9001:2000	CE Lifetime Warranty	Operating Temp.: Storage Temp.: Relative Humidity: MTBF:	-40°C to +75°C -40°C to +85°C 0 to 95% non-condensing > 100,000 hours