FT4X0DB Series



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.

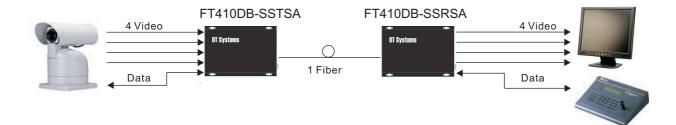
It provides a cost-effective solution for the transmission of four-channel video together with either one or two data channel(s). Either standalone or card module is available for different installation requirements.

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 FT420DB-SMR	 4 Video Transmitter/1 Data Transceiver 4 Video Receiver/1 Data Transceiver 4 Video Transmitter/2 Data Transceiver 4 Video Receiver/2 Data Transceiver 	1 (1310/1550 nm)	23 dB	2 km
SINGLEMODE (9/125 um)				
FT410DB-SST FT410DB-SSR FT420DB-SST FT420DB-SSR	4 Video Transmitter/1 Data Transceiver 4 Video Receiver/1 Data Transceiver 4 Video Transmitter/2 Data Transceiver 4 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) Options: Model numbers specified above are for Card Modules, please add 'SA' for Standalone. eg. FT410DB-SMTSA ST type connector is standard. For FC type, specify 'F' in the model number. Eg. FT410DB-FMT				

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.

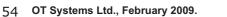
(3) Power adaptor is manufactured by third party and is supplied with fitted screw-terminal output cables.

(4) Please feel free to consult factory for any special requirement and customization

Specifications

Connectors Video ST (standard), FC No. of Channels: 4 Optical: Bandwidth: 6.5MHz per channel Video: BNC Data: 7-pin screw terminal Format: PAL / NTSC / SECAM 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 **Electrical and Mechanical** Signal-to-Noise Ratio: > 65dB Power: SA: 12VDC @ 4.8W Card: From FT-C18 chassis Data Dimensions (HxWxD): SA: 30(50*) x 156 x 212mm No. of Channels: 1 or 2 Card: 154 x 20.4(41*) x 212mm Data Direction: **Bi-directional** Weight: SA: 0.75(0.97*)kg Data Interface: DIP switch-selectable RS232, Card type: 0.30(0.45*)kg RS422, RS485(2 or 4-wire) Tri-state No. of rack slots: $1(2^*)$ Data Format: MPD (Manchester, Bi-phase, etc) LED Indicators: Power, Video per channel, Data Rate: 0~256Kbps Optical carrier detected, *Specifications of FT420DB Data Tx & Rx Environmental

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



F© (€ (h)

Due to continuous improvement, all product specifications are subject to change without further notice.

Lifetime

Warrantv