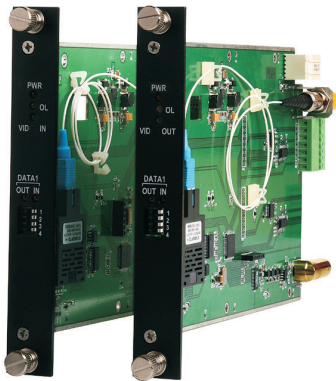


Card module 8-bit Digital 1-ch Video with 1 Bi-directional Data



The FTD110DB series supports optical transmission of 8-bit PCM coded video and one bi-directional data through one multimode or singlemode optical fiber. Its card module feature enables it to be fitted in the FT-C18 rack-mount chassis.

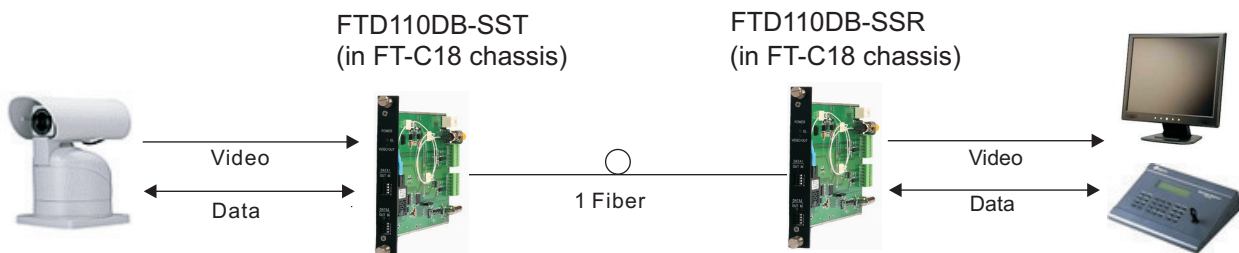
The FTD110DB series are also compatible with transmitters/receivers of the FTD110DBMicro, FTD110DBM and FTD110DB-XXR3 series.

8-bit Digital Video

Features

- Non-compressed 8-bit digital video transmission
- No video degradation over max. operating distance
- Signal to noise ratio better than 60 dB
- Supports NTSC, PAL & SECAM video systems
- Gold plated BNC connector
- Supports 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
- The FTD110DB series are compatible with transmitters/receivers of the FTD110DBMicro, FTD110DBM and FTD110DB-XXR3 series

Typical Application



FTD110DB Series

Ordering Information

Model	Description	No. of Fibers (Wavelengths)	Optical Power Budget	Max. Distance
MULTIMODE (62.5/125 um)				
FTD110DB-SMT	1 Video Transmitter/1 Data Transceiver	1 (1310/1550 nm)	23 dB	4 km
FTD110DB-SMR	1 Video Receiver/1 Data Transceiver			
SINGLEMODE (9/125 um)				
FTD110DB-SST	1 Video Transmitter/1 Data Transceiver	1 (1310/1550 nm)	17 dB	40 km
FTD110DB-SSR	1 Video Receiver/1 Data Transceiver			
FTD110DB-SSTL	1 Video Transmitter/1 Data Transceiver	1 (1310/1550 nm)	24 dB	60 km
FTD110DB-SSRL	1 Video Receiver/1 Data Transceiver			
Compatibility:	FTD110DB-SMR also with FTD110DBMicro-SMT & FTD110DBM-SMT FTD110DB-SSR also with FTD110DBMicro-SST & FTD110DBM-SST FTD110DB-SMT also with FTD110DB-SMR3 FTD110DB-SST also with FTD110DB-SSR3			
Accessories:	FT-C18. 19" rack mount chassis (purchased separately) for housing card modules			
Options:	ST type connector is standard. For FC type, specify ' F ' in the model number. Eg. FTD110DB- F MT Audio or contact closure is available as an alternative to data. Please consult factory for details			

8-bit Digital Video

- 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:	1	Optical:	ST (standard), FC
Bandwidth:	6.5MHz	Video:	BNC
Format:	PAL / NTSC / SECAM	Data:	7-pin screw terminal
Input / Output:	1.0 Vp-p, 75 ohms	Power:	Futurebus connector
Differential Gain:	< 1% typical	Electrical and Mechanical	
Differential Phase:	< 1° typical	Power:	From FT-C18 chassis
Signal-to-Noise Ratio:	> 60dB	Dimensions (HxWxD):	154.0 x 20.4 x 212.0mm
Data		Weight:	0.20kg
No. of Channels:	1	No. of rack slots:	1
Data Direction:	Bi-directional	LED Indicators:	Power, Video, Optical carrier detected, Data Tx & Data Rx
Data Interface:	DIP switch-selectable RS232, RS422, RS485(2 or 4-wire) Tri-state	Environmental	
Data Format:	MPD (Manchester, Bi-phase, etc)	Operating Temp.:	-40°C to +75°C
Data Rate:	0~256Kbps	Storage Temp.:	-40°C to +85°C
		Relative Humidity:	0 to 95% non-condensing
		MTBF:	> 100,000 hours



Lifetime Warranty