FTD110DB-XXR3 Series

OT Systems

8-bit Digital Triple Independent Video with Bi-directional Data Receiver

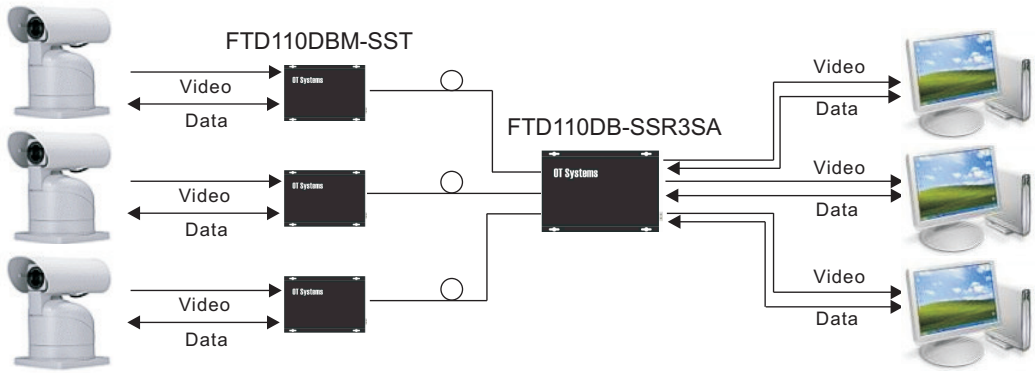
The FTD110DB-XXR3 series Triple Independent Video with Data Receiver recovers three separate channels of 8-bit PCM coded video and bi-directional data on three independent multimode or singlemode optical fibers. Its card module feature enables it to be fitted in the FT-C18 rack mount chassis and thus maximizes the channel capacity by accommodating up to 27 video and data channels within one rack mount chassis.

The FTD110DB-XXR3 series Triple Independent Video with Data Receivers are compatible with transmitters of the FTD110DBMicro, FTD110DBM and FTD110DB series

Features

- Recover three separate channels of non-compressed 8-bit digital video and bi-directional data in one module
- 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 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
- Excellent suppression of EMI & RFI and elimination of ground loop
- Optimum sensitivity for power budget concerns
- Adjustment and maintenance free
- No setup just plug-and-play
- Standalone or card type
- 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
- Cost effective solution for small scale systems
- Compatible with transmitters of the FTD110DBMicro, FTD110DBM and FTD110DB series

Typical Application



FTD110DB Series

Ordering Information

Model	Description	No. of Fibers (Wavelengths)	Optical Power Budget	Max. Distance
	MULTIMODE (62.5/125 um)			
FTD110DB-SMR3	3 Independent Video Receiver/Data Transceiver	3 (1310/1550 nm)	23 dB	4 km
	SINGLEMODE (9/125 um)			
FTD110DB-SSR3	3 Independent Video Receiver/Data Transceiver	3 (1310/1550 nm)	17 dB	40 km
FTD110DB-SSR3L	3 Independent Video Receiver/Data Transceiver	3 (1310/1550 nm)	24 dB	60 km

Compatibility: Compatible with all FTD110DBMicro, FTD110DBM and FTD110DB series transmitters
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. FTD110DB-SMR3***SA***
ST type connector is standard. For FC type, specify '***F***' in the model number. Eg. FTD110DB-***F***MR3
Audio or contact closure is available as an alternative to data. Please consult factory for details

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

No. of Channels:	3
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:	> 60dB

Data

No. of Channels:	3
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

Connectors

Optical:	ST (standard), FC
Video:	BNC
Data:	7-pin screw terminal
Power:	SA: 2-pin screw terminal
	Card: Futurebus connector

Electrical and Mechanical

Power:	SA: 12VDC @ 6.5W
	Card: From FT-C18 chassis
Dimensions (HxWxD):	SA: 50 x 156 x 212mm
	Card: 154.0 x 41.0 x 212.0mm
Weight:	SA: 0.95kg
	Card: 0.4kg
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

ISO 9001:2000 FM 88638

Lifetime Warranty