FTD110DBMicro Series

OT Systems

Microtype 8-bit Digital 1-ch Video with 1 Bi-directional Data







The FTD110DBMicro series supports optical transmission of 8-bit PCM coded video and one bi-directional data through one multimode or singlemode optical fiber. It is the smallest video with data transmitter/receiver pair among all OT Systems products. The transmitter only occupies limited space for easy installation within most camera housings.

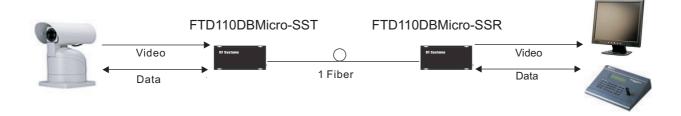
Transmitters of the FTD110DBMicro series are also compatible with receivers of the FTD110DB, FTD110DB-XXR3 and FTD110DBM series, catering to different system configurations.

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
- 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
- Transient voltage protection on power supply and all signal inputs & outputs
- Robust design for harsh environment applications
- Microtype fits within most camera housing
- Transmitters of the FTD110DBMicro series are also compatible with receivers of the FTD110DB, FTD110DB-XXR3 and FTD110DBM series

Typical Application



FTD110DBMicro Series

Ordering Information

Model	Description	No. of Fibers (Wavelengths)	Optical Power Budget	Max. Distance		
MULTIMODE (62.5/125 um)						
FTD110DBMicro-SMT FTD110DBMicro-SMR	Microtype 1 Video Transmitter/1 Data Transceiver Microtype 1 Video Receiver/1 Data Transceiver	1 (1310/1550 nm)	23 dB	4 km		
SINGLEMODE (9/125 um)						
FTD110DBMicro-SST FTD110DBMicro-SSR	Microtype 1 Video Transmitter/1 Data Transceiver Microtype 1 Video Receiver/1 Data Transceiver	1 (1310/1550 nm)	17 dB	40 km		
FTD110DBMicro-SSTL FTD110DBMicro-SSRL	Microtype 1 Video Transmitter/1 Data Transceiver Microtype 1 Video Receiver/1 Data Transceiver	1 (1310/1550 nm)	24 dB	60 km		
Compatibility: FTD110DBMicro-SMT also with FTD110DB-SMR, FTD110DB-SMR3 & FTD110DBM-SMR FTD110DBMicro-SST also with FTD110DB-SSR, FTD110DB-SSR3 & FTD110DBM-SSR FTD110DBMicro-SSTL also with FTD110DB-SSR1, FTD110DB-SSR3L & FTD110DBM-SSRL Accessories: FT-PA/12V. 12VDC power adapter included (US, European, UK or Australian power plug) ST type connector is standard. For FT type, specify 'F' in the model number. Eg. FTD110DBMicro-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

Video		Connectors		
No. of Channels: Bandwidth: Format: Input / Output: Differential Gain: Differential Phase:	1 6.5MHz PAL / NTSC / SECAM 1.0 Vp-p, 75 ohms < 1% typical < 1° typical	Optical: Video: Data: Power: Electrical and Me	ST (standard), FC BNC 7-pin screw terminal 2-pin screw terminal	
Signal-to-Noise Ratio:	> 60dB	Power: Dimensions (HxWxD): Weight:	12VDC @ 3W 35 x 36.2 x 96mm 0.35kg	
No. of Channels: Data Direction: Data Interface:	1 Bi-directional DIP switch-selectable RS232,	LED Indicators:	Power, Video, Optical carrier detected, Data Tx & Rx	
Data Format:	RS422, RS485(2 or 4-wire) Tri-state MPD (Manchester, Bi-phase, etc)	Environmental		
Data Rate:	0~256Kbps	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	











