

# FTD100M Series

## Minitype 8-bit Digital 1-ch Video



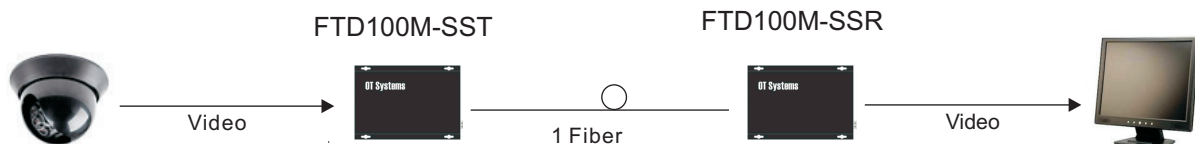
The FTD100M series offer a value-based solution for digital quality point-to-point transmission. It supports optical transmission of 8-bit PCM coded video through one multimode or singlemode optical fiber.

Transmitters of the FTD100M series are also compatible with receivers of the FTD100 and FTD100-XXR3 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
- Gold plated BNC connector
- 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
- Cost effective solution for small scale systems
- Transmitters of the FTD100M series are also compatible with receivers of the FTD100 and FTD100-XXR3 series

### Typical Application



# FTD100M Series

## Ordering Information

Model	Description	No. of Fibers (Wavelengths)	Optical Power Budget	Max. Distance
<b>MULTIMODE (62.5/125 <math>\mu</math>m)</b>				
FTD100M-SMT	Minitype 1 Video Transmitter	1 (1310 nm)	23 dB	4 km
FTD100M-SMR	Minitype 1 Video Receiver			
<b>SINGLEMODE (9/125 <math>\mu</math>m)</b>				
FTD100M-SST	Minitype 1 Video Transmitter	1 (1310 nm)	17 dB	40 km
FTD100M-SSR	Minitype 1 Video Receiver			
FTD100M-SSTL	Minitype 1 Video Transmitter	1 (1310 nm)	24 dB	60 km
FTD100M-SSRL	Minitype 1 Video Receiver			
<b>Compatibility:</b>	FTD100M-SMT also with FTD100-SMR & FTD100-SMR3 FTD100M-SST also with FTD100-SSR & FTD100-SSR3			
<b>Accessories:</b>	FT-PA/12V. 12VDC power adapter included (US, European, UK or Australian power plug)			
<b>Options:</b>	ST type connector is standard. For FC type, specify 'F' in the model number. Eg. FTD100Micro-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		Electrical and Mechanical	
No. of Channels:	1	Power:	12VDC @ 3W
Bandwidth:	6.5MHz	Dimensions (HxWxD):	30.5 x 111.0 x 146.5mm
Format:	PAL / NTSC / SECAM	Weight:	0.35kg
Input / Output:	1.0 Vp-p, 75 ohms	LED Indicators:	Power, Video, Optical carrier detected
Differential Gain:	< 1% typical	<b>Environmental</b>	
Differential Phase:	< 1° typical	Operating Temp.:	-40°C to +75°C
Signal-to-Noise Ratio:	> 60dB	Storage Temp.:	-40°C to +85°C
<b>Connectors</b>		Relative Humidity:	0 to 95% non-condensing
Optical:	ST (standard), FC	MTBF:	> 100,000 hours
Video:	BNC		
Power:	2-pin screw terminal		



**Lifetime Warranty**