

# Description

The FTD100 8-Bit Digital Video transmission product, features high-performance laser-based optics for the clearest, most reliable data transmission over one fiber for both single and multi-mode with no video degradation over the entire operating distance (up to 20km).

This plug-and-play product provides instant product compatibility for most major security manufacturers' equipment and reliability in harsh environments, a perfect compliment to any commercial, government or intelligent transportation application. The product operates in FT-C18 Rack Mount Chassis.

These units are compatible with the FTD100Micro transmitters/receivers and FTD100-XXR3 receivers.



# **Features**

### Video

- NTSC or PAL video standards supported
- Non-compressed 8-bit digitally encoded video
- No video degradation over the maximum operating distance

#### Optical

- One fiber design
- High performance laser-based optics
- Multimode or Singlemode
- ST or FC connectors available

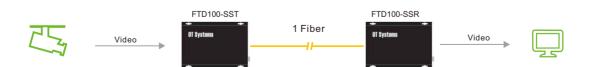
### **Robust Design**

- > Plug-and-Play design, no in-field adjustments required.
- Hot-swappable design
- ➤ Wide operating temperature range of -40°C to +75°C
- Designed for use in harsh environments

### Warranty

Comprehensive Lifetime Warranty

# Typical Application



# Specifications

### Video

Number of Channels	1		
Format	NTSC/PAL/SECAM		
Input/Output	1 Volt pk-pk (75 ohms)		
Bandwidth	>=6MHz		
Differential Gain	<1% Typical		
Differential Phase	<1 Degree Typical		
SNR-CCIR weighted	>60dB		

## **LED**

Video Signal Indication (Presence)	Green LED lit		
Optical Carrier Detected	Yellow / Active		
Power	Red / On		

## Connectors

Video Input / Output	BNC		
Optical Input / Output	ST (standard), FC (optional)		
Power (Rack-Mount)	Bus connector		

## **Electrical and Mechanical**

Power	From FT-C18 Chassis
Dimensions(WxHxD)	148 x 20.4 x 213mm(Max)
Shipping Weight	0.16kg

# **Environmental**

Operating Temp	-40°C to +75°C		
Storage Temp	-40°C to +85°C		
Relative Humidity	0 to 95% non-condensing		
MTRE	> 100 000 hours		

# Ordering Information

Fiber Type	Part Number	Description	Wavelengths (nm)	Optical Power Budget (dB)	Max. Distance (Km)	No. of slots
Multi-mode (62.5/125μm)	FTD100-SMT	1 - ch Video Transmitter  1 - ch Video Receiver	1310	23	4	1
Single-mode (9/125µm)	FTD100-SST	1 - ch Video Transmitter  1 - ch Video Receiver	1310	17	20	1

Options

- ST type connector is standard. For FC type, specify "F" in the suffix. E.g. FMT.
- Please feel free to consult factory if longer transmission distance is required.

Rack Mount Chassis

• FT-C18 is to be purchased separately. Please refer to accessories section for the details.

- Transmission distance will suffer if additional losses are introduced by the optical connectors, fusions, splices and the fibers within the
- Operating distance of multimode is limited by the characteristics of the fiber bandwidth.
- Please feel free to consult factory for any special requirement and customization.











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