

# FT100 / FT200 / FT400 / FT800

10-bit Digital 1/2/4/8-ch Video



## Description

The 10-Bit Digital Video transmission transmitters, receivers and multiplexer products feature high-performance laser-based optics for the clearest, most reliable data transmission in both single and multi-mode with no video degradation over the entire operating distance (up to 20km).

This plug-and-play product family provides instant 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 features in card module or standalone type.



## Features

### Video

- ▶ NTSC or PAL video standards supported
- ▶ Non-compressed 10-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

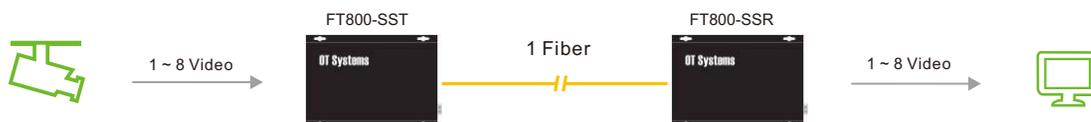
- ▶ Plug-and-Play design, no in-field adjustments required.
- ▶ Hot-swappable design
- ▶ Solid-state current limiters
- ▶ Wide operating temperature range of -40°C to +75°C
- ▶ Designed for use in harsh environments

### Warranty

- ▶ Comprehensive Lifetime Warranty

Video Transmission

## Typical Application



## Specifications

### Video

Number of Channels	1 / 2 / 4 / 8
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	>65dB

### 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 (Standalone)	2-pin screw terminals
Power (Rack-mount)	Bus connector

### Electrical and Mechanical

#### FT100

Power (Standalone)	12VDC @ 3W
Power (Rack Mount)	From FT-C18 Chassis
Dimensions(WxHxD) (Standalone)	156 x 30.5 x 223mm(Max)
Dimensions(WxHxD) (Rack Mount)	148 x 20.4 x 213mm(Max)
Shipping Weight (Standalone)	0.56kg
Shipping Weight (Rack Mount)	0.16kg

#### FT200 / FT400

Power (Standalone)	12VDC @ 4.2W
Power (Rack Mount)	From FT-C18 Chassis
Dimensions(WxHxD) (Standalone)	156 x 30.5 x 223mm(Max)
Dimensions(WxHxD) (Rack Mount)	148 x 20.4 x 213mm(Max)
Shipping Weight (Standalone)	0.58kg (Max)
Shipping Weight (Rack Mount)	0.25kg (Max)

#### FT800

Power (Standalone)	12VDC @ 6W
Power (Rack Mount)	From FT-C18 Chassis
Dimensions(WxHxD) (Standalone)	156 x 50.5 x 223mm(Max)
Dimensions(WxHxD) (Rack Mount)	148 x 41.4 x 213mm(Max)
Shipping Weight (Standalone)	0.82kg
Shipping Weight (Rack Mount)	0.35kg

### 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

Video Transmission

## Ordering Information

Fiber Type	Part Number	Description	Wavelengths (nm)	Optical Power Budget (dB)	Max. Distance (Km)	No. of slots	
Multi-mode (62.5/125µm)	FT100-SMT	1- ch Video Transmitter	1310	23	4	1	
	FT100-SMR	1- ch Video Receiver					
	FT200-SMT	2- ch Video Transmitter	1310	23	2	1	
	FT200-SMR	2- ch Video Receiver					
	FT400-SMT	4- ch Video Transmitter	1310	23	2	1	
	FT400-SMR	4- ch Video Receiver					
	FT800-SMT	8- ch Video Transmitter	1310	23	1	2	
	FT800-SMR	8- ch Video Receiver					
	Single-mode (9/125µm)	FT100-SST	1- ch Video Transmitter	1310	17	20	1
		FT100-SSR	1- ch Video Receiver				
FT200-SST		2- ch Video Transmitter	1310	17	20	1	
FT200-SSR		2- ch Video Receiver					
	FT400-SST	4- ch Video Transmitter	1310	17	20	1	
	FT400-SSR	4- ch Video Receiver					
	FT800-SST	8- ch Video Transmitter	1310	17	20	2	
	FT800-SSR	8- ch Video Receiver					

Options	<ul style="list-style-type: none"> <li>ST type connector is standard. For FC type, specify "F" in the suffix. E.g. FMT.</li> <li>For Standalone type, please add "SA". E.g. SMTSA</li> <li>Please feel free to consult factory if longer transmission distance is required.</li> </ul>
Power Adaptor	<ul style="list-style-type: none"> <li>Power adaptor is included in Standalone type only.</li> </ul>
Rack Mount Chassis	<ul style="list-style-type: none"> <li>FT-C18 is to be purchased separately. Please refer to accessories section for the details.</li> </ul>

- Notes:
- Transmission distance will suffer if additional losses are introduced by the optical connectors, fusions, splices and the fibers within the network.
  - Operating distance of multimode is limited by the characteristics of the fiber bandwidth.
  - Power adaptor is manufactured by third party and is supplied with fitted screw - terminal output cables.
  - 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.