

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

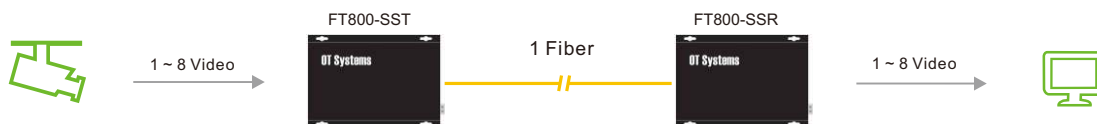
- ▶ Plug-and-Play design, no in-field adjustments required.
- ▶ Hot-swappable design
- ▶ Solid-state current limiters
- ▶ Wide operating temperature range of -40°C to +75°C
- ▶ Designed for use in harsh environments

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				
Single-mode (9/125µm)	FT800-SMT	8- ch Video Transmitter	1310	23	1	2
	FT800-SMR	8- ch Video Receiver				
	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**
- ST type connector is standard. For FC type, specify "F" in the suffix. E.g. FMT.
 - For Standalone type, please add "SA". E.g. SMTSA
 - Please feel free to consult factory if longer transmission distance is required.
- Power Adaptor**
- Power adaptor is included in Standalone type only.
- Rack Mount Chassis**
- FT-C18 is to be purchased separately. Please refer to accessories section for the details.

- 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.



OT Systems Ltd., November 2013

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