

# FT010AF / FT040AF / FT010AB / FT040AB

24-bit Digital 1 / 4-ch Audio - Forward / Bi-directional



## Features

### Audio

- ▶ 20Hz – 20KHz Bandwidth
- ▶ Transmit Balanced or Unbalanced Line-level Audio

### 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

## Description

The FT010AF/FT040AF/FT010AB/FT040AB series features high-performance laser-based optics for the clearest, most reliable data transmission. The audio series fiber transmission products support fiber optic transmission of forward/bi-directional audio both single and multi-mode with no degradation over the entire operating distance (up to 20km).

This budget-friendly plug-and-play product provides instant compatibility for most major security manufacturers' equipment and supports data, audio and control interface. Created for reliability in harsh environments, this series provides a perfect compliment to any commercial, government or intelligent transportation application. The product features in card module or standalone type.

## Typical Application



## Specifications

### Audio

Number of Channels	1 / 4
Audio Direction (FT010AF/FT040AF)	Forward
Audio Direction (FT010AB/FT040AB)	Bi-directional
Input / Output Type	Balanced or Unbalanced
Input Level / Impedance	0 dBm(nominal), 10K ohms
Output Level	+4dBm
Bandwidth	20Hz-20KHz
Signal-to-Noise Ratio(SNR)	>66dB

### Connectors

Optical Input / Output	ST (standard), FC (optional)
Audio Input / Output	5-pin screw terminal
Power (Standalone)	2-pin screw terminal block
Power (Rack-mount)	Bus connector

### LED

Audio In / Out	Red/Green LED lit
Optical Carrier Detected	Yellow / Active
Power	Red/On

### Electrical and Mechanical

#### FT010AF / FT010AB

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)	0.58kg
Shipping Weight (Rack Mount)	0.2kg

#### FT040AF / FT040AB

Power (Standalone)	12VDC @ 4.8W
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)	0.62kg
Shipping Weight (Rack Mount)	0.22kg

### 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

## Ordering Information

Fiber Type	Part Number	Description	Wavelengths (nm)	Optical Power Budget (dB)	Max. Distance (Km)	No. of slots	
Multi-mode (62.5/125µm)	FT010AF-SMT	1 Audio One Way Transmitter	1310	23	4	1	
	FT010AF-SMR	1 Audio One Way Receiver					
	FT040AF-SMT	4 Audio One Way Transmitter					
	FT040AF-SMR	4 Audio One Way Receiver					
	Multi-mode (62.5/125µm)	FT010AB-SMTR	1 Audio Bi-directional Transeceiver	1310   1550	23	4	1
		FT010AB-SMRT	1 Audio Bi-directional Transeceiver				
		FT040AB-SMTR	4 Audio Bi-directional Transeceiver				
		FT040AB-SMRT	4 Audio Bi-directional Transeceiver				
Single-mode (9/125µm)	FT010AF-SST	1 Audio One Way Transmitter	1310	17	20	1	
	FT010AF-SSR	1 Audio One Way Receiver					
	FT040AF-SST	4 Audio One Way Transmitter					
	FT040AF-SSR	4 Audio One Way Receiver					
	Single-mode (9/125µm)	FT010AB-SSTR	1 Audio Bi-directional Transeceiver	1310   1550	17	20	1
		FT010AB-SSRT	1 Audio Bi-directional Transeceiver				
		FT040AB-SSTR	4 Audio Bi-directional Transeceiver				
		FT040AB-SSRT	4 Audio Bi-directional Transeceiver				

- 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. SMRSA
  - Please feel free to consult factory if longer transmission distance is required.
- Power Adaptor
- Power adaptor is included for 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., June 2013

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