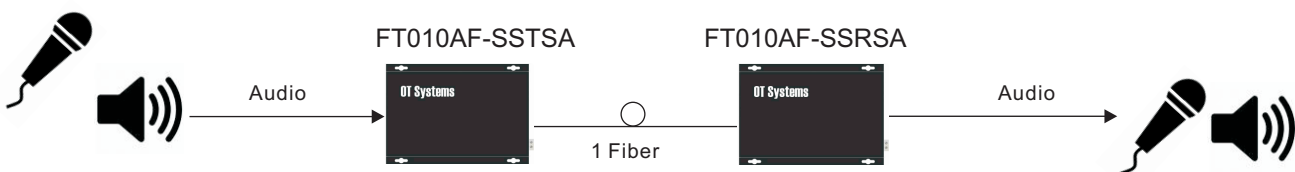# FT0X0AF Series

24-bit Digital 1 or 4 Forward Audio

The FT0X0AF series supports optical transmission of 24-bit PCM coded balanced or unbalanced audio signal through one fiber either in multimode or singlemode.

It provides a flexible solution for the transmission of either one or four forward audio channel(s). Either standalone or card module is available for different installation requirements.

Features

- 24-bit digital audio processing
- One or four forward audio transmission
- Supports balanced or unbalanced audio
- Suitable for broadcast audio
- Laser diode for optical transmission
- Optimum sensitivity for power budget concerns
- Excellent suppression of EMI & RFI in audio cables
- Elimination of ground loop noise
- Adjustment and maintenance free
- No setup but just plug-and-play
- Hot-swappable card modules
- LED indicators for audio Tx & Rx levels
- Duplicated LED indicators on the front and rear of the unit for the convenience of observation
- Robust design for harsh environment applications
- Standalone or card module

Typical Application

FT010AF-SSTSA   FT010AF-SSRSA

Audio — OT Systems — 1 Fiber — OT Systems — Audio

FT0X0AF Series

Ordering Information

Model	Description	No. of Fibers (Wavelengths)	Optical Power Budget	Max. Distance
MULTIMODE (62.5/125 um)				
FT010AF-SMT	1 Audio Transmitter			
FT010AF-SMR	1 Audio Receiver	1 (1310 nm)	23 dB	4 km
FT040AF-SMT	4 Audio Transmitter			
FT040AF-SMR	4 Audio Receiver			
SINGLEMODE (9/125 um)				
FT010AF-SST	1 Audio Transmitter			
FT010AF-SSR	1 Audio Receiver	1 (1310 nm)	17 dB	40 km
FT040AF-SST	4 Audio Transmitter			
FT040AF-SSR	4 Audio Receiver			
FT010AF-SSTL	1 Audio Transmitter			
FT010AF-SSRL	1 Audio Receiver	1 (1310 nm)	24 dB	60 km
FT040AF-SSTL	4 Audio Transmitter			
FT040AF-SSRL	4 Audio Receiver			

Accessories: FT-C18. 19" rack mount chassis (purchased separately) for housing card modules
FT-PA/12V. 12VDC power adapter included for standalone (US, European, UK or Australian power plug)
Options: Model numbers specified above are for Card Modules, please add '*SA*' for Standalone. eg. FT010AF-SMT*SA*
ST type connector is standard. For FC type, specify '*F*' in the model number. Eg. FT010AF-*F*MT

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

Audio

No. of Channels:	1 or 4
Audio Direction:	Forward
Audio Bandwidth	20 Hz ~ 20K Hz
Input Level / Impedance:	0 dBm (nominal); 10K ohms, balanced or unbalanced
Output Level:	+4 dBm
Signal-to-Noise Ratio:	>65 dB

Connectors

Optical:	ST (standard), FC
Audio:	5-pin screw terminal
Power:	SA: 2-pin screw terminal
	Card: Futurebus connector

Electrical and Mechanical

Power:	SA: 12VDC @ 4.5(6.0*)W
	Card: From FT-C18 chassis
Dimensions (HxWxD):	SA: 30 x 156 x 212mm
	Card: 154 x 20.4 x 212mm
Weight:	SA: 0.6kg
	Card type: 0.2kg
No. of rack slots:	1
LED Indicators:	Power, Optical carrier detected, Audio Tx & Rx

Environmental

Operating Temp.:	-40℃ to +75℃
Storage Temp.:	-40℃ to +85℃
Relative Humidity:	0 to 95% non-condensing
MTBF:	> 100,000 hours

OT Systems Ltd., February 2009.
Due to continuous improvement, all product specifications are subject to change without further notice.