

FT8X0AB Series

10-bit Digital 8-ch Video with 1 or 2 Bi-directional Audio



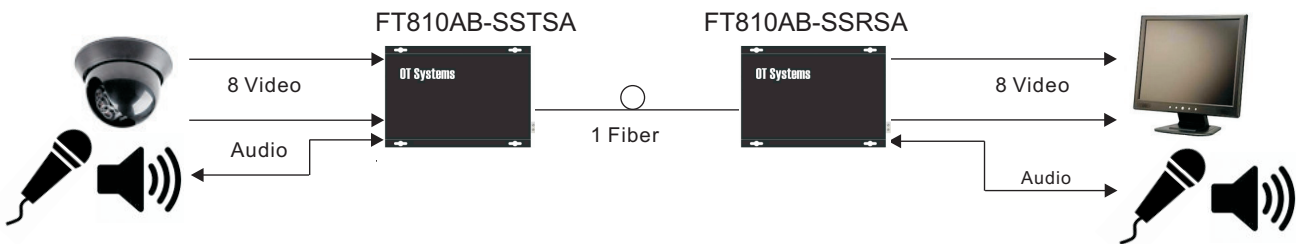
The FT8X0AB series supports optical transmission of high-quality 10-bit PCM coded video with bi-directional 24-bit PCM coded audio through one fiber either in multimode or singlemode.

It provides a cost-effective solution for the transmission of eight-channel video together with either one or two audio channel(s). Either standalone or card module is available for different installation requirements.

Features

- Eight-Channel Non-compressed 10-bit digital video transmission
- No video degradation over max. operating distance
- Signal to noise ratio better than 65 dB
- Supports NTSC, PAL & SECAM video systems
- Gold plated BNC connector
- Supports one or two bi-directional audio
- 24-bit digital audio processing
- Laser diode for optical transmission
- Supports balanced or unbalanced audio
- Optimum sensitivity for power budget concerns
- Excellent suppression of EMI & RFI and elimination of ground loop
- 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
- Transient voltage protection on power supply and all signal inputs & outputs

Typical Application



FT8X0AB Series

Ordering Information

Model	Description	No. of Fibers (Wavelengths)	Optical Power Budget	Max. Distance
MULTIMODE (62.5/125 μm)				
FT810AB-SMT	8 Video Transmitter/1 Audio Transceiver	1 (1310/1550 nm)	23 dB	1 km
FT810AB-SMR	8 Video Receiver/1 Audio Transceiver			
FT820AB-SMT	8 Video Transmitter/2 Audio Transceiver			
FT820AB-SMR	8 Video Receiver/2 Audio Transceiver			
SINGLEMODE (9/125 μm)				
FT810AB-SST	8 Video Transmitter/1 Audio Transceiver	1 (1310/1550 nm)	17 dB	40 km
FT810AB-SSR	8 Video Receiver/1 Audio Transceiver			
FT820AB-SST	8 Video Transmitter/2 Audio Transceiver			
FT820AB-SSR	8 Video Receiver/2 Audio Transceiver			
FT810AB-SSTL	8 Video Transmitter/1 Audio Transceiver	1 (1310/1550 nm)	24 dB	60 km
FT810AB-SSRL	8 Video Receiver/1 Audio Transceiver			
FT820AB-SSTL	8 Video Transmitter/2 Audio Transceiver			
FT820AB-SSRL	8 Video Receiver/2 Audio Transceiver			
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. FT810AB-SMT SA ST type connector is standard. For FC type, specify ' F ' in the model number. Eg. FT8210AB- FMT			

- 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

Video		Connectors	
No. of Channels:	8	Optical:	ST (standard), FC
Bandwidth:	6.5MHz	Video:	BNC
Format:	PAL / NTSC / SECAM	Audio:	5-pin screw terminal
Input / Output:	1.0 Vp-p, 75 ohms	Power:	SA: 2-pin screw terminal Card: Futurebus connector
Differential Gain:	< 1% typical	Electrical and Mechanical	
Differential Phase:	< 1° typical	Power:	SA: 12VDC @ 6.4(7.6)W Card: From FT-C18 chassis
Signal-to-Noise Ratio:	> 65dB	Dimensions (HxWxD):	SA: 50 x 156 x 212mm Card: 154 x 41 x 212mm
Audio		Weight:	SA: 0.97kg Card type: 0.45kg
No. of Channels:	1 or 2	No. of rack slots:	2
Audio Direction:	Bi-directional	LED Indicators:	Power, Video per channel, Optical carrier detected, Audio Tx & Rx
Audio Bandwidth:	20 Hz ~ 20K Hz	*Specifications of FT820AB	
Input Level / Impedance:	0 dBm (nominal); 10K ohms, balanced or unbalanced	Environmental	
Output Level:	+4 dBm	Operating Temp.:	-40°C to +75°C
Signal-to-Noise Ratio:	>65 dB	Storage Temp.:	-40°C to +85°C
		Relative Humidity:	0 to 95% non-condensing
		MTBF:	> 100,000 hours



**Lifetime
Warranty**