

FT8X0AB Series

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



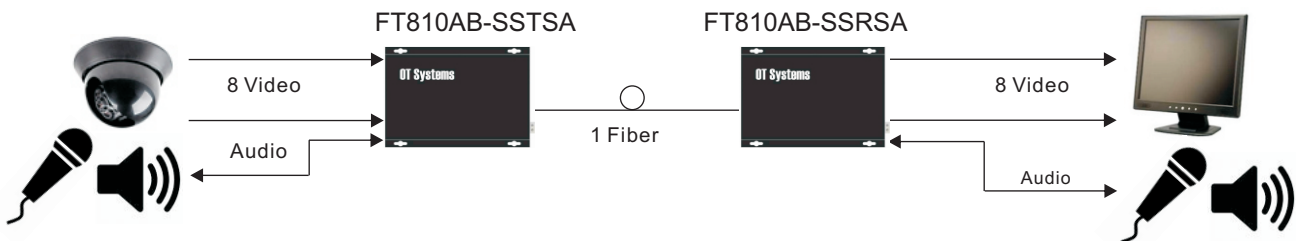
The FT8X0AB series supports optical transmission of high-quality 10-bit PCM coded video with bi-directional 24-bit PCM coded audio through one fiber either in multimode or singlemode.

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 FT810AB-SMR	8 Video Transmitter/1 Audio Transceiver 8 Video Receiver/1 Audio Transceiver	1 (1310/1550 nm)	23 dB	1 km			
FT820AB-SMT FT820AB-SMR	8 Video Transmitter/2 Audio Transceiver 8 Video Receiver/2 Audio Transceiver						
SINGLEMODE (9/125 μm)							
FT810AB-SST FT810AB-SSR	8 Video Transmitter/1 Audio Transceiver 8 Video Receiver/1 Audio Transceiver				1 (1310/1550 nm)	17 dB	40 km
FT820AB-SST FT820AB-SSR	8 Video Transmitter/2 Audio Transceiver 8 Video Receiver/2 Audio Transceiver						
FT810AB-SSTL FT810AB-SSRL	8 Video Transmitter/1 Audio Transceiver 8 Video Receiver/1 Audio Transceiver	1 (1310/1550 nm)	24 dB	60 km			
FT820AB-SSTL FT820AB-SSRL	8 Video Transmitter/2 Audio Transceiver 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 No. of Channels: 8 Bandwidth: 6.5MHz Format: PAL / NTSC / SECAM Input / Output: 1.0 Vp-p, 75 ohms Differential Gain: < 1% typical Differential Phase: < 1° typical Signal-to-Noise Ratio: > 65dB		Connectors Optical: ST (standard), FC Video: BNC Audio: 7-pin screw terminal Power: SA: 2-pin screw terminal Card: Futurebus connector	
Audio No. of Channels: 1 or 2 Audio Direction: Bi-directional 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		Electrical and Mechanical Power: SA: 12VDC @ 6.4(7.6)W Card: From FT-C18 chassis Dimensions (HxWxD): SA: 50 x 156 x 212mm Card: 154 x 41 x 212mm Weight: SA: 0.97kg Card type: 0.45kg No. of rack slots: 2 LED Indicators: Power, Video per channel, Optical carrier detected, Audio Tx & Rx *Specifications of FT820AB	
		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	



Lifetime Warranty