

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



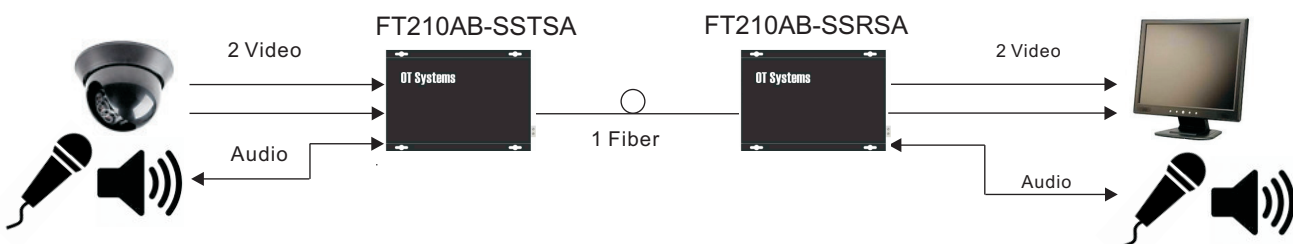
The FT2X0AB series supports optical transmission of high-quality 10-bit PCM coded video with bi-directional 24-bit PCM coded audio through one fiber either in multimode or singlemode.

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

Features

- Two-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



FT2X0AB Series

Ordering Information

Model	Description	No. of Fibers (Wavelengths)	Optical Power Budget	Max. Distance			
MULTIMODE (62.5/125 μm)							
FT210AB-SMT FT210AB-SMR	2 Video Transmitter/1 Audio Transceiver 2 Video Receiver/1 Audio Transceiver	1 (1310/1550 nm)	23 dB	2 km			
FT220AB-SMT FT220AB-SMR	2 Video Transmitter/2 Audio Transceiver 2 Video Receiver/2 Audio Transceiver						
SINGLEMODE (9/125 μm)							
FT210AB-SST FT210AB-SSR	2 Video Transmitter/1 Audio Transceiver 2 Video Receiver/1 Audio Transceiver				1 (1310/1550 nm)	17 dB	40 km
FT220AB-SST FT220AB-SSR	2 Video Transmitter/2 Audio Transceiver 2 Video Receiver/2 Audio Transceiver						
FT210AB-SSTL FT210AB-SSRL	2 Video Transmitter/1 Audio Transceiver 2 Video Receiver/1 Audio Transceiver	1 (1310/1550 nm)	24 dB	60 km			
FT220AB-SSTL FT220AB-SSRL	2 Video Transmitter/2 Audio Transceiver 2 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. FT210AB-SMT SA ST type connector is standard. For FC type, specify ' F ' in the model number. Eg. FT210AB- 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

10-bit Digital Video

Specifications

Video	
No. of Channels:	2
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
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

Connectors	
Optical:	ST (standard), FC
Video:	BNC
Audio:	5-pin screw terminal
Power:	SA: 2-pin screw terminal Card: Futurebus connector
Electrical and Mechanical	
Power:	SA: 12VDC @ 5.2(6.5*)W Card: From FT-C18 chassis
Dimensions (HxWxD):	SA: 30(50*) x 156 x 212mm Card: 154 x 20.4(41*) x 212mm
Weight:	SA: 0.68(0.92*)kg Card type: 0.25(0.40*)kg
No. of rack slots:	1(2*)
LED Indicators:	Power, Video per channel, Optical carrier detected, Audio Tx & Rx
*Specifications of FT220AB	

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