

## 10-bit Digital 1-ch Video with 1 Bi-directional Contact Closure



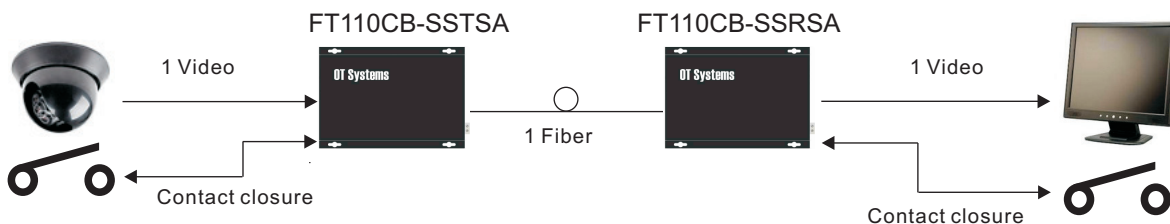
The FT1X0CB series supports optical transmission of high-quality 10-bit PCM coded video with bi-directional contact closure through one fiber either in multimode or singlemode.

It provides a cost-effective solution for the transmission of one-channel video together with one contact closure. Either standalone or card module is available for different installation requirements.

### Features

- 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 bi-directional contact closure
- Support dry contact or TTL input
- Contact closure output selectable (NO or NC)
- Laser diode for optical transmission
- Excellent suppression of EMI & RFI and elimination of ground loop
- Optimum sensitivity for power budget concerns
- Adjustment and maintenance free
- No setup but just plug-and-play
- Hot-swappable card modules
- Duplicated LED indicators on the front and rear of the unit for the convenience of observation
- Transient voltage protection on power supply and all signal inputs & outputs
- Robust design for harsh environment applications
- Standalone or card module

### Typical Application



1-ch Video

# FT110CB Series

## Ordering Information

Model	Description	No. of Fibers (Wavelengths)	Optical Power Budget	Max. Distance
<b>MULTIMODE (62.5/125 <math>\mu</math>m)</b>				
FT110CB-SMT	1 Video Transmitter/1 CC Transceiver	1 (1310/1550 nm)	23 dB	4 km
FT110CB-SMR	1 Video Receiver/1 CC Transceiver			
<b>SINGLEMODE (9/125 <math>\mu</math>m)</b>				
FT110CB-SST	1 Video Transmitter/1 CC Transceiver	1 (1310/1550 nm)	17 dB	40 km
FT110CB-SSR	1 Video Receiver/1 CC Transceiver			
FT110CB-SSTL	1 Video Transmitter/1 CC Transceiver	1 (1310/1550 nm)	24 dB	60 km
FT110CB-SSRL	1 Video Receiver/1 CC 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. FT110CB-SMT**SA**  
 ST type connector is standard. For FC type, specify '**F**' in the model number. Eg. FT110CB-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

<b>Video</b>		<b>Connectors</b>	
No. of Channels:	1	Optical:	ST (standard), FC
Bandwidth:	$\geq 6$ MHz	Video:	BNC
Format:	PAL / NTSC / SECAM	Contact Closure:	7-pin screw terminal
Input / Output:	1.0 Vp-p, 75 ohms	Power:	SA: 2-pin screw terminal Card: Futurebus connector
Differential Gain:	< 1% typical	<b>Electrical and Mechanical</b>	
Differential Phase:	< 1° typical	Power:	SA: 12VDC @ 4.8W Card: From FT-C18 chassis
Signal-to-Noise Ratio:	> 65dB	Dimensions (WxHxD):	SA: 156 x 30.5 x 223mm (Max) Card: 148 x 20.4 x 213mm (Max)
<b>Contact Closure</b>		Weight:	SA: 0.56kg Card type: 0.16kg
No. of Channels:	1	No. of rack slots:	1
Direction:	Bi-directional	LED Indicators:	Power, Video, Optical carrier detected, CC Tx & Rx
Input:	Dry contact or TTL input	<b>Environmental</b>	
Output:	Dry contact, NO or NC; Max. 32VDC/VAC @ 100mA	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**