FT110CB / FT210CB / FT410CB / FT810CB

10-bit Digital 1/2/4/8-ch Video with 1-ch Bi-directional Contact Closure





The FT110CB/FT210CB/FT410CB/FT810CB 10-Bit Digital Video and Contact Closure transmission products, support fiber optical transmission of 10-Bit PCM coded video (up to 8 channels) with one bi-directional contact closure and features high-performance laser-based optics for the clearest, most reliable data transmission. The video and contact closure series products support fiber optic transmission of 10-Bit PCM coded video and bi-directional contact closure in both single and multi-mode with no video degradation over the entire operating distance(up to 20 km).

This plug-and-play product provides instant product compatibility for most major security manufacturers' equipment and reliability in harsh environments, a perfect compliment to any commercial, government or intelligent transportation application. The product features in card module or standalone type.





Features

Video

- NTSC or PAL video standards supported
- Non-compressed 10-bit digitally encoded video
- No video degradation over the maximum operating distance

Contact Closure

- Bi-directional contact closure
- > 2ms response time
- Normally open

Optical

- One fiber design
- High performance laser-based optics
- Multimode or Singlemode
- ST or FC connectors available

Robust Design

- Plug-and-Play design, no in-field adjustments required.
- Hot-swappable design
- Wide operating temperature range of -40°C to +75°C
- Designed for use in harsh environments

Warranty

Comprehensive Lifetime Warranty

Typical Application



Specifications

Video

Number of Channels	1/2/4/8		
Format	NTSC/PAL/SECAM		
Input/Output	1 Volt pk-pk (75 ohms)		
Bandwidth	>=6MHz		
Differential Gain	<1% Typical		
Differential Phase <1 Degree Typical			
SNR-CCIR weighted	>65dB		

Contact Closure

Number of Channels	1		
Direction	Bi-directional		
Input	Dry Contact or TTL Input		
Output	Dry Contact, NO or NC		
Dry Contact Output Rating	Max. 32VDC/VAC @ 100mA		

Video Signal Indication (Presence)	Green LED lit
Contact Closure Input / Output	Red/Green LED lit
Optical Carrier Detected	Yellow / Active
Power	Red/On

Connectors

Video Input / Output	BNC ST (standard), FC (optional) 7-pin screw terminals 2-pin screw terminals			
Optical Input / Output				
Contact Closure Input / Output				
Power (Standalone)				
Power (Rack-Mount)	Bus connector			

Electrical and Mechanical

FT110CB / FT210CB

Power (Standalone)	12VDC @ 4.8W			
Power (Rack Mount)	From FT-C18 Chassis			
Dimensions(WxHxD) (Standalone)	156 x 30.5 x 223mm(Max)			
Dimensions(WxHxD) (Rack Mount)	148 x 20.4 x 213mm(Max)			
Shipping Weight (Standalone)	0.56kg			
Shipping Weight (Rack Mount)	0.2kg			

F1410CB	
Power (Standalone)	12VDC @ 5.4W
Power (Rack Mount)	From FT-C18 Chassis
Dimensions(WxHxD) (Standalone)	156 x 30.5 x 223mm(Max
Dimensions(WxHxD) (Rack Mount)	148 x 20.4 x 213mm(Max
Shipping Weight (Standalone)	0.58kg
Shipping Weight (Rack Mount)	0.25kg
FT810CB	

Power (Standalone)	12VDC @ 6.6W				
Power (Rack Mount)	From FT-C18 Chassis				
Dimensions(WxHxD) (Standalone)	156 x 50.5 x 223mm(Max				
Dimensions(WxHxD) (Rack Mount)	148 x 41.4 x 213mm(Max				
Shipping Weight (Standalone)	0.82kg				
Shipping Weight (Rack Mount)	0.35kg				

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			

Ordering Information

Fiber Type	Part Number	Description	Wavelengths (nm)	Optical Power Budget (dB)	Max. Distance (Km)	No. of slots
Multi-mode (62.5/125μm) F	FT110CB-SMT FT110CB-SMR	1-ch Video Transmitter / Receiver with 1-ch bidirectional Contact Closure Transceiver	1310 1550	23	4	1
	FT210CB-SMT FT210CB-SMR	2 - ch Video Transmitter / Receiver with 1-ch bidirectional Contact Closure Transceiver	1310 1550	23	2	1
	FT410CB-SMT FT410CB-SMR	4 - ch Video Transmitter / Receiver with 1-ch bidirectional Contact Closure Transceiver	1310 1550	23	2	1
	FT810CB-SMT FT810CB-SMR	8 - ch Video Transmitter / Receiver with 1-ch bidirectional Contact Closure Transceiver	1310 1550	23	1	2
FT110CB-SSR FT210CB-SST FT210CB-SST FT210CB-SSR FT410CB-SSR FT410CB-SSR FT810CB-SSR	FT110CB-SST FT110CB-SSR	1-ch Video Transmitter / Receiver with 1-ch bidirectional Contact Closure Transceiver	1310 1550	17	20	1
	FT210CB-SST FT210CB-SSR	2 - ch Video Transmitter / Receiver with 1-ch bidirectional Contact Closure Transceiver	1310 1550	17	20	1
	FT410CB-SST FT410CB-SSR	4 - ch Video Transmitter / Receiver with 1-ch bidirectional Contact Closure Transceiver	1310 1550	17	20	1
	FT810CB-SST FT810CB-SSR	8 - ch Video Transmitter / Receiver with 1-ch bidirectional Contact Closure Transceiver	1310 1550	17	20	2

Options

- ST type connector is standard. For FC type, specify "F" in the suffix. E.g. FMT.
- For Standalone type, please add "SA". E.g. SMTSA
- Please feel free to consult factory if longer transmission distance is required.

Power Adaptor

- Power adaptor is included in Standalone type only.
- Rack Mount Chassis • FT-C18 is to be purchased separately. Please refer to accessories section for the details.

- Notes: Transmission distance will suffer if additional losses are introduced by the optical connectors, fusions, splices and the fibers within the
 - Operating distance of multimode is limited by the characteristics of the fiber bandwidth.
 - Power adaptor is manufactured by third party and is supplied with fitted screw terminal output cables
 - Please feel free to consult factory for any special requirement and customization.













OT Systems Ltd., November 2013

Due to continuous improvement, all product specifications are subject to change without further notice.