

FT110CB / FT210CB / FT410CB / FT810CB

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



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

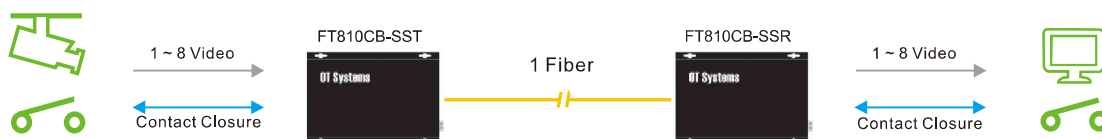
- ▶ Comprehensive Lifetime Warranty

Description

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.

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

LED

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
Optical Input / Output	ST (standard), FC (optional)
Contact Closure Input / Output	7-pin screw terminals
Power (Standalone)	2-pin screw terminals
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

FT410CB

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)	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
Single-mode (9/125µm)	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 network.
 - 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., June 2013

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