

FTD110DACB

8-bit Digital 1-ch Video with Bi-directional Data, Audio & Contact Closure



Features

Video

- ▶ NTSC or PAL video standards supported
- ▶ Non-compressed 8-bit digitally encoded video
- ▶ No video degradation over the maximum operating distance

Data

- ▶ Meets EIA RS-232/422/485 specifications
- ▶ Full RS-485 Tri-state support
- ▶ Half or full-duplex operation
- ▶ Transparent to data encoding
- ▶ Data rates from 0 to 256kbps

Contact Closure

- ▶ 2ms response time
- ▶ Normally open

Audio

- ▶ 20Hz – 20KHz Bandwidth
- ▶ Transmit Balanced or Unbalanced Line-level Audio

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

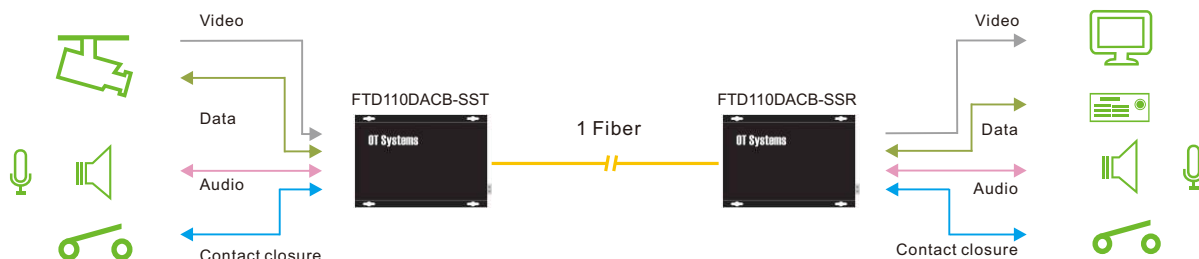
Description

The FTD110DACB series features high-performance laser-based optics for the clearest, most reliable data transmission. The video, data, audio and contact closure series fiber transmission products support fiber optic transmission of 8-Bit PCM coded video, bi-directional data, bi-directional audio and bi-directional contact closure in both single and multi-mode with no video degradation over the entire operating distance (up to 20km).

This budget-friendly plug-and-play product provides instant compatibility for most major security manufacturers' equipment and supports data, audio and control interface. Created for reliability in harsh environments, this series provides a perfect compliment to any commercial, government or intelligent transportation application. The product features in card module or standalone type.

Video Transmission

Typical Application



Specifications

Video

Number of Channels	1
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	>60dB

Data

Number of Channels	1
Data Direction	Bi-directional
Data Interface	RS232, RS422, RS485 2 or 4-wire Tri-state
Selection Method	DIP switch-selectable
Data Rate	0-256kbps
Data Format	MPD (Manchester, Bi-phase, etc)

Contact Closures

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

Audio

Number of Channels	1
Audio Direction	Bi-directional
Input / Output Type	Balanced or Unbalanced
Input Level / Impedance	0 dBm(nominal), 10K ohms
Output Level	+4dBm
Bandwidth	20Hz-20KHz
Signal-to-Noise Ratio(SNR)	>66dB

LED

Video Signal Indication (Presence)	Green LED lit
Data In / Out	Red/Green LED lit
Contact Closure In / Out	Red/Green LED lit
Audio In / Out	Red/Green LED lit
Optical Carrier Detected	Yellow / Active
Power	Red/On

Connectors

Video Input / Output	BNC
Optical Input / Output	ST (standard), FC (optional)
Data Input / Output	7-pin screw terminal
Contact Closure Input / Output	5-pin screw terminal
Audio Input / Output	5-pin screw terminal
Power (Standalone)	2-pin screw terminal
Power (Rack-Mount)	Bus connector

Electrical and Mechanical

Power (Standalone)	12VDC @ 4.2W
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)	0.16kg

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)	FTD110DACB-SMT	1- ch Video Transmitter with bidirectional Data, Audio and Contact Closure Transceiver	1310 1550	23	4	2
	FTD110DACB-SMR	1- ch Video Receiver with bidirectional Data, Audio and Contact Closure Transceiver				
Single-mode (9/125µm)	FTD110DACB-SST	1- ch Video Transmitter with bidirectional Data, Audio and Contact Closure Transceiver	1310 1550	17	20	2
	FTD110DACB-SSR	1- ch Video Receiver with bidirectional Data, Audio and Contact Closure Transceiver				

Options	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Power adaptor is included for Standalone type only.
Rack Mount Chassis	<ul style="list-style-type: none"> 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.

Video Transmission



OT Systems Ltd., November 2013

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