

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



The FTD110DACB series supports optical transmission of 8-bit PCM coded video, bi-directional data, 24-bit PCM coded audio and contact closure through one multimode or singlemode optical fiber.

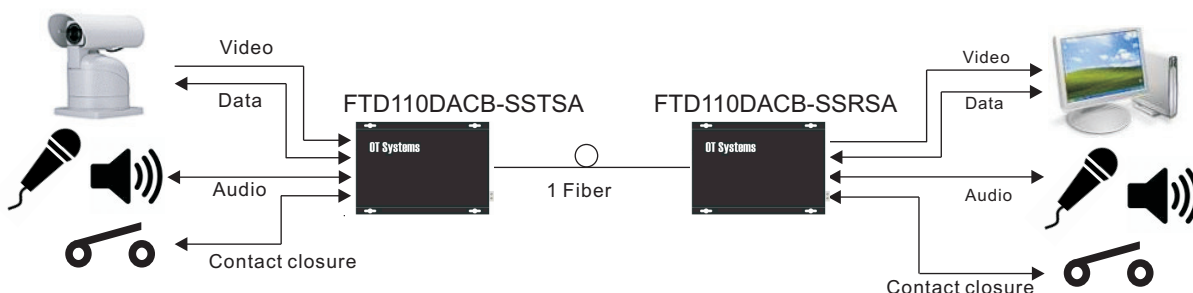
It provides a cost-effective solution for complicated surveillance or communication systems where only limited fiber is available for simultaneous transmission of multiple signals. It is available in standalone or card module.

8-bit Digital Video

### Features

- Non-compressed 8-bit digital video transmission
- No video degradation over max. operating distance
- Signal to noise ratio better than 60 dB
- Supports NTSC, PAL & SECAM video systems
- Gold plated BNC connector
- Supports bi-directional data, audio & contact closure
- Supports multi-protocol data in RS232, RS422 & RS485(2 or 4-wire) Tri-state formats
- External access for data format selection via DIP switches
- 24-bit digital audio processing
- LED indicators for audio Tx & Rx levels
- Supports balanced or unbalanced audio
- Supports dry contact or TTL input
- Contact closure output selectable (NO or NC)
- Laser diode for optical transmission
- 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
- 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



# FTD110DACB Series

## Ordering Information

Model	Description	No. of Fibers (Wavelengths)	Optical Power Budget	Max. Distance
<b>MULTIMODE (62.5/125 um)</b>				
FTD110DACB-SMT	1 Video Transmitter/1 Data, Audio, CC Transceiver	1 (1310/1550 nm)	23 dB	4 km
FTD110DACB-SMR	1 Video Receiver/1 Data, Audio, CC Transceiver			
<b>SINGLEMODE (9/125 um)</b>				
FTD110DACB-SST	1 Video Transmitter/1 Data, Audio, CC Transceiver	1 (1310/1550 nm)	17 dB	40 km
FTD110DACB-SSR	1 Video Receiver/1 Data, Audio, CC Transceiver			
FTD110DACB-SSTL	1 Video Transmitter/1 Data, Audio, CC Transceiver	1 (1310/1550 nm)	24 dB	60 km
FTD110DACB-SSRL	1 Video Receiver/1 Data, Audio, CC Transceiver			
<b>Accessories:</b> 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).				
<b>Options:</b> Model numbers specified above are for Card Modules, please add ' <b>SA</b> ' for Standalone. eg. FTD110DACB-SMTRSA ST type connector is standard. For FC type, specify ' <b>F</b> ' in the model number. Eg. FTD110DACB-FMTR.				

- 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

<p><b>Video</b></p> <p>No. of Channels: 1                      Bandwidth: 6.5MHz                      Format: PAL / NTSC / SECAM                      Input / Output: 1.0 Vp-p, 75 ohms                      Differential Gain: &lt; 1% typical                      Differential Phase: &lt; 1° typical                      Signal-to-Noise Ratio: &gt; 60dB</p>	<p><b>Contact Closure</b></p> <p>No. of Channels: 1                      Direction: Bi-directional                      Input: Dry contact or TTL input                      Output: Dry contact, NO or NC;                      Max. 32VDC/VAC @ 100mA</p>
<p><b>Data</b></p> <p>No. of Channels: 1                      Data Direction: Bi-directional                      Data Interface: DIP switch-selectable RS232, RS422, RS485(2 or 4-wire) Tri-state,                      Data Format: MPD (Manchester, Bi-phase, etc)                      Data Rate: 0~256Kbps</p>	<p><b>Connectors</b></p> <p>Optical: ST (standard), FC                      Video: BNC                      Data, Audio, CC: Data :7-pin Audio&amp;CC : 5-pin                      Power: SA: 2-pin screw terminal                      Card: Futurebus connector</p>
<p><b>Audio</b></p> <p>No. of Channels: 1                      Audio Direction: Bi-directional                      Audio Bandwidth: 20 Hz ~ 20KHz                      Input Level / Impedance: 0 dBm(nominal), 10K ohms, balanced or unbalanced                      Output Level: +4dBm                      Signal-to-Noise Ratio: &gt;65 dB</p>	<p><b>Electrical and Mechanical</b></p> <p>Power: SA: 12VDC @ 6W                      Card: From FT-C18 chassis                      Dimensions (HxWxD): SA: 30 x 156 x 212mm                      Card: 154.0 x 20.4 x 212.0mm                      Weight: SA: 0.70kg                      Card: 0.30kg                      No. of rack slots: 1                      LED Indicators: Power, Video per channel, Optical carrier detected, Data Tx &amp; Rx, Audio Tx &amp; Rx and CC Tx &amp; Rx</p>
	<p><b>Environmental</b></p> <p>Operating Temp.: -40°C to +75°C                      Storage Temp.: -40°C to +85°C                      Relative Humidity: 0 to 95% non-condensing                      MTBF: &gt; 100,000 hours</p>



**Lifetime Warranty**