FTD110DB

Card Module 8-bit Digital 1-ch Video with 1-ch Bi-directional Data

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

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

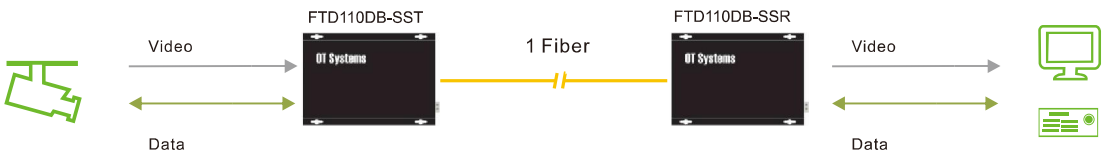
Description

The FTD110DB 8-Bit Digital Video and Data Modules, features high-performance laser-based optics for the clearest, most reliable data transmission over one fiber for both single and multi-mode with no video degradation over the entire operating distance (up to 20km), as well as RS-232/422/485 serial data ports.

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 operates in FT-C18 rack mount chassis.

These units are compatible with the FTD110DBMicro transmitters/receivers and FTD110DB-XXR3 receivers.

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)

LED

Video Signal Indication (Presence)	Green LED lit
Data 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
Power (Rack-Mount)	Bus connector

Electrical and Mechanical

Power	From FT-C18 Chassis
Dimensions(WxHxD)	148 x 20.4 x 213mm(Max)
Shipping Weight	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)	**FTD110DB-SMT**	1-ch Video Transmitter with 1-ch bidirectional Data Transceiver	1310 | 1550	23	4	1
	FTD110DB-SMR	1-ch Video Receiver with 1-ch bidirectional Data Transceiver				
Single-mode (9/125μm)	**FTD110DB-SST**	1-ch Video Transmitter with 1-ch bidirectional Data Transceiver	1310 | 1550	17	20	1
	FTD110DB-SSR	1-ch Video Receiver with 1-ch bidirectional Data Transceiver				

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

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.
- Please feel free to consult factory for any special requirement and customization.

ISO 9001:2000 FM 88638

OT Systems
All Digital Fiber Optic Manufacturing Specialist

OT Systems Ltd., June 2013

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