FTDR110DB Series

Optical Redundant 8-bit Digital 1-ch Video with 1-ch Bi-directional Data





The FTDR110DB 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. The dual fiber optical redundancy design provide safe operation in the case of loss of either one fiber.

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.





■ 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

- Optical Redundant Dual fiber design
- High performance laser-based optics
- Multimode or Singlemode
- ST connector available

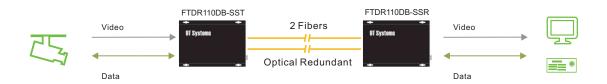
Robust Design

- 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 | | | |
| 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) | | | |

| Video Signal Indication (Presence) | Green LED lit Red/Green LED lit Yellow / Active Red / On | | |
|---|---|--|--|
| Data In / Out | | | |
| Optical Carrier Detected | | | |
| Power | | | |
| Connectors | | | |
| Video Input / Output | BNC | | |
| Optical Input / Output | 2 x ST 7-pin screw terminal Bus connector | | |
| Data Input / Output | | | |
| Power (Rack-Mount) | | | |
| | | | |
| Electrical and Mechanic | cal ———— | | |
| | From FT-C18 Chassis | | |
| Electrical and Mechanic Power Dimensions(WxHxD) | | | |
| Power Dimensions(WxHxD) | From FT-C18 Chassis | | |
| Power Dimensions(WxHxD) Shipping Weight | From FT-C18 Chassis 148 x 20.4 x 213mm(Max) | | |
| Power | From FT-C18 Chassis 148 x 20.4 x 213mm(Max) | | |

-40°C to +85°C

> 100,000 hours

0 to 95% non-condensing

Ordering Information

| | Fiber Type | Part Number | Description | Wavelengths (nm) | Optical Power Budget (dB) | Max. Distance (Km) | No. of slots | |
|--------------------------|---------------|--|---|------------------|---------------------------------|--------------------------|--------------------|--|
| Single-mode (9/125μm) | FTDR110DB-SST | 1 - ch Video Transmitter with 1-ch bidirectional Data Transceiver with Optical Redundancy | 1310 1550 17 | 20 | TBC | | | |
| | (9/125µm) | FTDR110DB-SSR | 1-ch Video Receiver with 1-ch bidirectional Data Transceiver with Optical Redundancy | | | | | |

Storage Temp

MTBF

Relative Humidity

• For Standalone type, please add "SA". E.G. FTDR110DB-SSTSA Option Rack Mount Chassis • FT-C18 is to be purchased separately. Please refer to accessories section for the details. Power Adapter • Power adapter is included for Standalone type only.

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













OT Systems Ltd., October 2013

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