

FTD110DBMicro

Microtype 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.
- ▶ Microtype for Wall-mount installation
- ▶ Wide operating temperature range of -40°C to +75°C
- ▶ Designed for use in harsh environments

Warranty

- ▶ Comprehensive Lifetime Warranty

Description

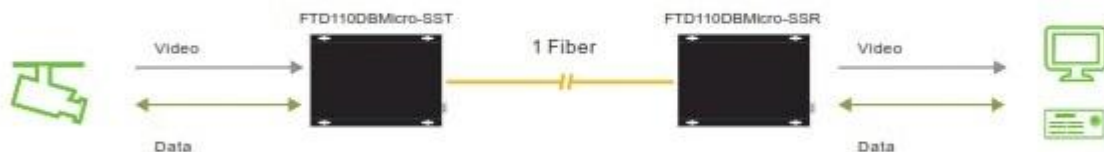
The FTD110DBMicro 8-Bit Digital Video and Data Modules, features high-performance laser-based optics for the clearest, most reliable data transmission over one fiber for both single and multi-mode with no video degradation over the entire operating distance (up to 20km), as well as RS-232/422/485 serial 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. This small, but mighty, design also comes ready for wall-mounted applications.

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

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) |

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 | 2-pin screw terminal |

Electrical and Mechanical

| | |
|-------------------|------------------------------|
| Power | 12VDC(24VAC*)@ 2.4W |
| Dimensions(WxHxD) | 36.2 x 35 x 101(118*)mm(Max) |
| Shipping Weight | 0.12kg |

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 |

* Specifications of FTD110DBMicro24 Models

Ordering Information

| Fiber Type | Part Number | Description | Wavelengths (nm) | Optical Power Budget (dB) | Max. Distance (Km) |
|-------------------------|----------------------------|--|------------------|---------------------------|--------------------|
| Multi-mode (62.5/125µm) | FTD110DBMicro-SMT | Minitype 1-ch Video Transmitter with 1-ch bidirectional Data Transceiver | 1310 1550 | 23 | 1 |
| | FTD110DBMicro24-SMT | Minitype 1-ch Video Transmitter with 1-ch bidirectional Data Transceiver (24VAC) | | | |
| | FTD110DBMicro-SMR | Minitype 1-ch Video Receiver with 1-ch bidirectional Data Transceiver | | | |
| Single-mode (9/125µm) | FTD110DBMicro-SST | Minitype 1-ch Video Transmitter with 1-ch bidirectional Data Transceiver | 1310 1550 | 17 | 20 |
| | FTD110DBMicro24-SST | Minitype 1-ch Video Transmitter with 1-ch bidirectional Data Transceiver (24VAC) | | | |
| | FTD110DBMicro-SSR | Minitype 1-ch Video Receiver with 1-ch bidirectional Data Transceiver | | | |

| | |
|--------------------|--|
| Options | <ul style="list-style-type: none"> 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. |
| Power Adaptor | <ul style="list-style-type: none"> Power adaptor is included. |
| Rack Mount Chassis | <ul style="list-style-type: none"> MR-C10 is to be purchased separately. Please refer to accessories section for 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.

