

# FTD100Micro

## Microtype 8-bit Digital 1-ch Video



### Description

The FTD100Micro Series offers 8-bit PCM digital video transmission with no video degradation over the entire operating distance (up to 20km) and a small, but mighty design that fits into most CCTV camera housings.

The cost-effective unit features high-performance laser-based optics for the clearest, most reliable data transmission over one fiber in both single and multi-mode. This plug-and-play product provides instant product compatibility for most major security manufacturers' equipment and reliability in harsh environments.

These units are compatible with the FTD100 transmitters/receivers and FTD100-XXR3 receivers.



### Features

#### Video

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

#### 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
- ▶ Wide operating temperature range of -40°C to +75°C
- ▶ Designed for use in harsh environments

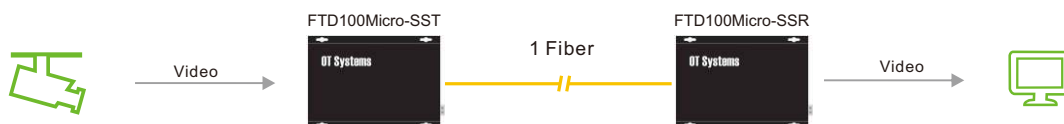
#### Local and remote diagnostics

- ▶ Service-friendly LED status indicators on front of the module

#### Warranty

- ▶ Comprehensive Lifetime Warranty

### Typical Application



## Specifications

### Video

Number of Channels	1
Format	NTSC/PAL
Input/Output	1 Volt pk-pk (75 ohms)
Bandwidth	>=6MHz
Differential Gain	<1% Typical
Differential Phase	<1 Degree Typical
SNR-CCIR weighted	>60dB

### LED

Video Signal Indication (Presence)	Green LED lit
Optical Carrier Detected	Yellow / Active
Power	Red / On

### Connectors

Video Input / Output	BNC
Optical Input / Output	ST (standard), FC (optional)
Power	2-pin screw terminal

### Electrical and Mechanical

Power	12VDC(24VAC*)@1.8W / From MR-C10
Dimensions(WxHxD)	36.2 x 24.5 x 101(118*)mm(Max)
Shipping Weight	0.1kg

### 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 FTD100Micro24 Models

## Ordering Information

Fiber Type	Part Number	Description	Wavelengths (nm)	Optical Power Budget (dB)	Max. Distance (Km)	No. of slots
Multi-mode (62.5/125µm)	<b>FTD100Micro-SMT</b>	Microtype 1 - ch Video Transmitter	1310	23	4	NA
	<b>FTD100Micro24-SMT</b>	Microtype 1 - ch Video Transmitter(24VAC)				
	<b>FTD100Micro-SMR</b>	Microtype 1 - ch Video Receiver				
Single-mode (9/125µm)	<b>FTD100Micro-SST</b>	Microtype 1 - ch Video Transmitter	1310	17	20	NA
	<b>FTD100Micro24-SST</b>	Microtype 1 - ch Video Transmitter(24VAC)				
	<b>FTD100Micro-SSR</b>	Microtype 1 - ch Video Receiver				

Options	<ul style="list-style-type: none"> <li>ST type connector is standard. For FC type, specify "F" in the suffix. E.g. FMT.</li> <li>Please feel free to consult factory if longer transmission distance is required.</li> </ul>
Power Adaptor	<ul style="list-style-type: none"> <li>Power adaptor is included.</li> </ul>
Rack Mount Chassis	<ul style="list-style-type: none"> <li>MR-C10 is to be purchased separately. Please refer to accessories section for details.</li> </ul>

- 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.



OT Systems Ltd., November 2013

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