

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 @1.8W / From MR-C10
Dimensions(WxHxD)	36.2 x 24.5 x 101mm(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

Ordering Information

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

- 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.
- Power Adaptor**
- Power adaptor is included.
- Rack Mount Chassis**
- 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.



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