FT8332/FR8332 Fiber Transmitter and Receiver

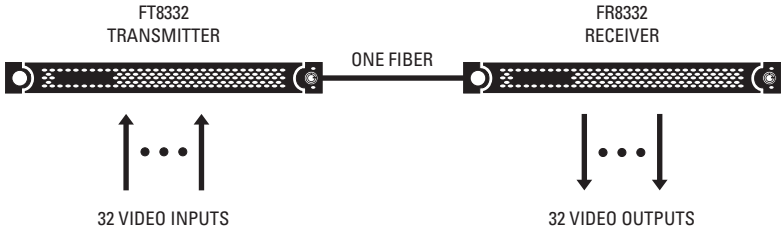
32-CHANNEL DIGITALLY ENCODED VIDEO

Product Features

- 8-Bit Digitally Encoded Video for High-Quality Multichannel Video Transmission over a Single Fiber
- Multimode Fiber Support for Distances up to 1 km
- Single-Mode Fiber Support for Distances up to 26 km
- Exceeds All Requirements for the RS-250C Medium-Haul Transmission Specification
- Coarse Wavelength Division Multiplexing (CWDM)
- Compatible with NTSC, PAL, and SECAM Video Standards
- Laser Diode for Transmission of Optical Signals
- No Performance Adjustments Required
- 12 VDC or 24 VAC Power Supply
- Stand-Alone and Rack-Mountable Design
- LED Indicators for Monitoring of Signal Status, Laser Status, and Operating Power

The **FT8332/FR8332** fiber transmitter and receiver provide the ability to transmit up to 32 composite video channels over one optical fiber. Using coarse wavelength division multiplexing (CWDM) technology, the **FT8332** transmitter and the **FR8332** receiver provide a cost-effective solution for transmitting multiple channels over fiber by allowing multiple wavelengths to be transmitted in a single fiber. The **FT8332** transmitter and the **FR8332** receiver are available in multimode and single-mode versions.

The **FT8332** and **FR8332** units can be rack mounted into an industry-standard 19-inch equipment rack or can be used as stand-alone units by being placed on a desktop or mounted to a wall. The WM5300 wall mount kit is required to mount an **FT8332/FR8332** unit to a wall.



TECHNICAL SPECIFICATIONS

MODELS

Model Number		Fiber Optic Connector Type	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Compatible Receiver				
Multimode (62.5/125 µm)					
FT8332MSTR	FR8332MSTR	ST	1350 nm 1325 nm 1300 nm 1275 nm	18 dB*†	1 km (0.6 mi)‡
Single-Mode (9/125 µm)					
FT8332SSTR	FR8332SSTR	ST	1350 nm 1325 nm 1300 nm 1275 nm	18 dB*	26 km (16.1 mi)§

*Optical power budget is 15 dB when operating temperature range is -40° to 0°C.
†When using 50/125 µm multimode fiber, subtract 3 dB from the optical power budget.
‡Maximum transmission distance is limited by fiber bandwidth.
§Maximum transmission distance is based on attenuation of 0.5 dB/km plus a 5 dB buffer for connector and splice losses.

Notes:
- Conformal coated models are available upon request. Contact the factory for additional information.
- For models with higher optical power budgets, contact the factory.

Supplied Accessories

- Regulated switching power supply with three power cords (North American, United Kingdom, and European); 90-264 VAC, 47-63 Hz input, 12 VDC (66 W) output

  Note: In extreme temperature conditions, it is recommended that an industrial-rated outdoor power supply be used.
- Rack mount kit (brackets, rails, and hardware)

VIDEO

Number of Channels	32
Modulation Type	Pulse code modulation, 8-bit resolution
Video Input (FT8332)/ Video Output (FR8332)	1.0 Vp-p, 75 ohms; NTSC, PAL, and SECAM
Bandwidth	6.5 MHz
Gain	Unity
Crosstalk	-50 dB typical at 3.58 MHz
Differential Gain	<1%
Differential Phase	<1.2°
Tilt	<1%
Signal-to-Noise Ratio	>60 dB (CCIR weighted)

RELAY

Relay Output	30 VDC, 1 A Choice of normally open or normally closed

GENERAL

Operating Temperature	-40° to 167°F (-40° to 75°C)
Input Power Requirements	12 VDC or 24 VAC, 1.5 A
LED Indicators	Power Video Present (per channel) TX Optical Link Loss (per set of 8 video channels) RX Optical Link Loss (per set of 8 video channels)
Dimensions	16.7" D x 17.0" W x 1.7" H (42.4 x 43.2 x 4.3 cm)
Unit Weight	11.4 lb (5.17 kg)
Shipping Weight	19 lb (9 kg)

MECHANICAL

Connectors	
Video	BNC (per channel)
Rack Power	6-pin connector
Stand-Alone Power	5-mm barrel connector
Fiber Optic	ST for multimode and single-mode fiber
Auxiliary Relay	3-pin header
Construction	Steel cabinet
Finish	Bezel: gray metallic with black end caps Chassis: black matte finish

CERTIFICATIONS

- CE, Class A
- FCC, Class A
- UL/cUL Listed
- C-Tick
- Complies with FDA requirements for Class 1 laser products

OPTIONAL ACCESSORIES

EPS5000-120	External rack power supply, 1 RU, dual 120 W power outputs
WM5300	Wall mount kit

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