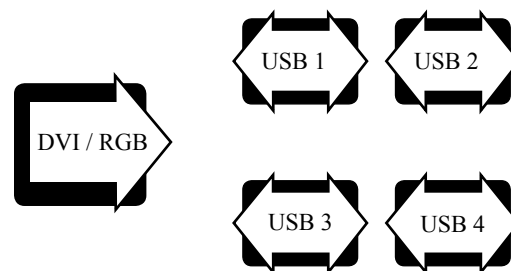
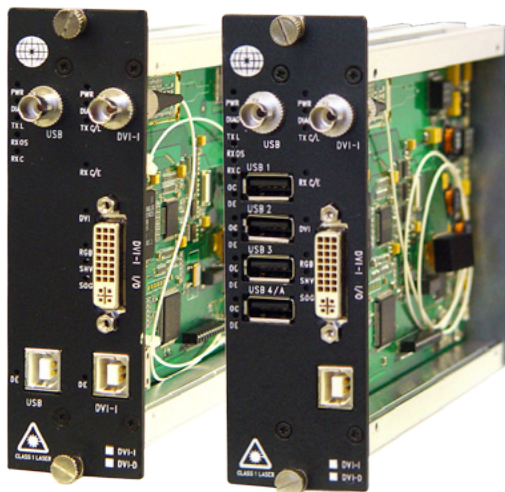


Digitally-Encoded DVI / RGB Video, USB, Keyboard & Mouse Transmission System



FEATURES:

- Digital Transmission of DVI, RGBHV, RGsB USB 2.0, Keyboard and Mouse over Dual Multimode Fibers
- USB 2.0 Extender with 4-port Hub
- Supports VGA, SVGA, SGA, SXGA & USGA Formats (640x480 to 1600x1200x60Hz)
- HDTV Resolutions of 480p, 720p, 1080i & 1080p
- Video Input/Output Format Conversion Between RGBHV, DVI & RGsB
- Uses All-Digital Processing & Transmission for Crystal-Clear Signals and No Color Skewing
- No Video Compression – Real-Time Video Transmission for Exceptional Quality & Resolution
- Requires No Adjustments, Equalization or De-Skewing
- Standard DVI-I Video Connector with Adapter Included for Standard VGA Interface
- USB 2.0 4-port Hub for Keyboard, Mouse, External HDD and Other USB Peripheral Devices
- Wide Optical Dynamic Range: Eliminates Need for Optical Attenuators
- Multimode Laser Based Systems

DESCRIPTION:

Meridian's FT/FR-1RG1Q/1Q-2 and FT/FR-1DV1Q/1Q-2 products are the part of Meridian's DigiCool product family, state-of-the-art, cost-effective, high performance Video/USB/Keyboard/Mouse transmission systems that transports the following signals:

1-ch fully-compliant DVI, RGBHV, or RGsB signal over one multimode fiber and keyboard and mouse over a second, multimode fiber using a standard USB 2.0 transport medium. At the transmit side, the USB interface connects directly to a standard USB 2.0 port on your computer and provides a 4-port USB 2.0 hub at the receive side. Four USB ports can be used to connect your computer keyboard, mouse or other USB 2.0 device such as a flash drive or external HDD. The supplied video adapter allow easy interface to standard VGA connectors on computers and monitors.

The FT/FR-1RG1Q/1Q-2 provides real-time, digitized transmission of the RGB and H&V sync signals.

Because it transmits signals in real-time, no video information is lost and is a perfect solution for dynamic video signals with crystal clear video and no color pixel skewing.

You can also use the video channel to convert between the various video formats. For example, the input could be an RGBHV signal from a standard computer while the output device might be a DVI or RGsB monitor.

The user can further enhance the video performance with the use of the video computer USB interface. The data channel allows the user to adjust brightness, contrast, H&V position, picture sharpness, color, etc. It also allows you to customize the unit for non-standard video resolutions and refresh rates.

CONFIGURATIONS:

This FT/FR-1RG1Q/1Q-2 product is available as rack mount cards and modules that can be installed in either Meridian's desk chassis or in 19" racking frames. This product requires two standard single slots and can be made into a stand-alone system with the addition of the SR-1000/s, 2 slot desk/wall mount chassis (87 VAC- 264VAC)

MARKETS:

- ✓ Courtrooms
- ✓ Medical & MRI displays
- ✓ Residential
- ✓ Secure computer installations
- ✓ Stock exchanges
- ✓ Video walls
- ✓ CAD / CAM

SPECIFICATIONS:

Video

Number of Video Channels	1 of DVI, RGsB (sync-on-green) or RGBHV (TTL H & V sync)
Horizontal Scan Rate	30kHz to 130kHz (auto sensing)
Vertical Scan Rate	60-150Hz (auto sensing)
SNR	>60dB
Resolution Range.....	640x480x60 to 1600x1200x75
HDTV Resolution supported ..	480p, 720p (RGB/DVI) 1080i, 1080p (DVI only)
RGB Processing	24-bits, no compression or scaling
Input Impedance/Level	RGB: 75 Ω / 714 mV p-p, H&V 3-5V p-p, 1V p-p w/S.O.G

Data

USB	2.0
Data Rate	480 Mb/s

Optical

Number of fibers	2
Fiber type	Multimode (62.5 or 50um)
Wavelength	850nm band
Operating distance	Up to 1km (50um fiber)* Up to 500m (62.5um fiber)*

Environmental

Operating Temperature	-10°C to +50°C
Storage Temperature	-55°C to +85°C
Relative Humidity	0 to 95% Non-condensing

* Based on maximum resolution & fiber bandwidth

** Due to variations of drivers and diagnostic options, power shown @ max value

Part Numbers:

Connectors

Video	DVI-I (female) HD-15 female (on dongle) ST (two)
Optical	4-pin USB (type A&B)
USB	See SR series chassis for details
Power	

Indicators (LEDs)

Power	Green
Diagnostic	Green (OK), Red (alarm)
Tx/Rx Optic	Green (Rx signal), Red (Tx laser error)
USB Active	Red
USB Link	Green
USB Host	Green
DVI active	Green
RGB active	Green
SHV (sync H&V)	Green
SOG (sync on green)	Green
RGB USB active	Green (Rx-Data), Red (Tx-Data)

Physical

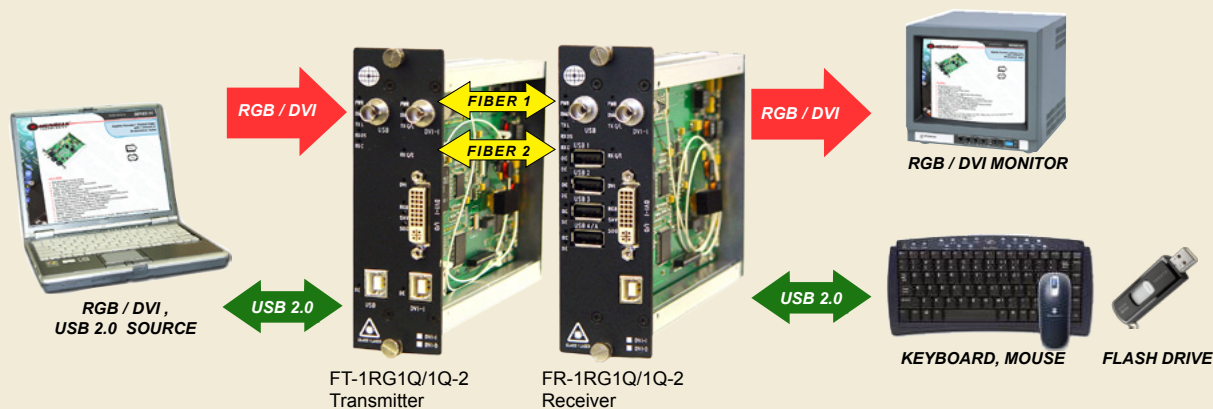
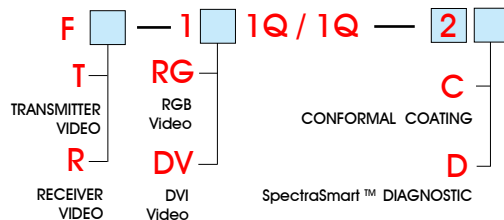
Dimensions (2 Cards)	160 mm (6.3") L, 127 mm (5") W 40mm (1.60") W 500 gms (26 Oz)
Weight	2
No. of Slots	See SR-1002 Brochure
Module	

Quality

MTBF	>120,000 hours @ Ground Fix 35°C per MIL217F
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Power **

Card	7 Watts
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Laser function	Meridian Optical Code	Fiber Type/Size (um)	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)	Estimated Max Distance
RGB	2	Multimode (FP Laser) 62.5/125 & 50/125	+2	-8	10	850	ST	15	1km (50um fiber) 500m (62.5um fiber)
KVM	2	Multimode (FP Laser) 62.5/125 & 50/125	-6	-16	10	1300 / 850	ST	24	1km (50um fiber) 500m (62.5um fiber)