Velocityrgb

Video Extension System-12 (transmitter only)

Powered by MRTS Technology



- Works in conjunction with a Velocity receiver (such as the Velocitydvi System-3, -3 A/V+, -3 A/N+ or Velocityrgb System-9 receiver)
- Supports one RGB video signal
- Supports 480p, 720p, and 1080i component video
- MRTS technology 6.22 Gbps allows for full frame rate transmission of uncompressed video
- Extends video signals up to 40 kilometers
- Signal transmission via fiber optic cable; no RF interference
- Full DDC2B/EDID support using two fibers
- Flawless image quality with no frame dropping

The Logical Solution - Video Extension

The Velocityrgb System-12 is designed to support **one RGB display, full duplex stereo audio, and serial (RS-232).** Using multi-mode or single-mode fiber, the system allows users to locate an analog monitor/projector via fiber from just a few meters up to 40 kilometers away from the controlling computer securely without the loss of resolution. In addition to this standout capability and performance, the Velocityrgb System-12 supports 480p, 720p, and 1080i component video.

MRTS Technology Provides 6.22 Gbps Allowing for Full Frame Rate Signal Transmission

Powered by Thinklogical's cutting edge, patent-pending MRTS (Multi Rate Transmission System) technology, this digital video extension system transports every frame of a video stream seamlessly, with no compression or dropped frames. In addition, all high speed peripherals function with no latency. Leveraging standard SFP+ transceivers, the system allows for the usage of either multi-mode or single-mode fiber optic cable.



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The System - Support for Component Video

The Velocityrgb System-12 is available as a transmitter only; it works in conjunction with a Velocity receiver, such as the Velocitydvi System-3 receiver, Velocitydvi System-3 A/V+ receiver, Velocitydvi System-3 A/N+ receiver, or Velocityrgb System-9 receiver. The Velocityrgb System-12 transmitter is connected to a Velocity receiver by multi-mode or single mode fiber optic cable. The transmitter unit connects to an analog video source with a suitable cable and the receiver unit provides connections to the display device. A +5V DC power supply is required on both the transmitter and receiver.

The Velocityrgb System-12 requires two fibers. The transmitter supports RGB video formats up to 165MHz. In addition, the transmitter supports component video inputs from DVD players, Blu-ray players, set-top boxes, and SD/HD cameras. The component video is converted into RGB colorspace for display on standard VGA or DVI monitors. YPbPr inputs of 480p, 720p, and 1080i at 60Hz are supported.

The Velocityrgb System-12 also has a local RGB video display port, and is compatible with all Thinklogical Velocity fiber video receivers, whether RGB or DVI.

Key Features

- Supports RGB video resolutions
- Supports 480p, 720p, and 1080i component video
- MRTS technology 6.22 Gbps allows for full frame rate transmission of uncompressed video
- Signal transmission via fiber optic cable; no RF interference
- Requires one or two fiber optic cables depending on application
- Flawless image quality with no frame dropping
- Extends video signals up to:
 - 750 meters using OM3+ multi-mode fiber
 - 1000 meters using OM4+ multi-mode fiber
 - 40 kilometers using single-mode fiber

- Local RGB/component output
- Audio and serial port for A/V applications
- DDC2B/EDID compliant
- Simple plug and play
- Class 1 laser product
- Available with SC-, ST-, or LC-type fiber connectors
- Compatible with all Thinklogical Velocity fiber video receivers

Specifications

Video Resolution Supply Voltage	RGB: Up to 1600 x 1200 @ 60Hz, 1920 x 1080 @ 60Hz component video: 480p, 720p, and 1080i @ 60Hz +5.0V DC	
DC Adapter	AC/DC adapter universal input 90-264 VAC (supplied)	
Operating Temperature	0°-50°C (32°-122°F)	
Humidity	5-95% RH, Non-Condensing	
Dimensions and Weights	Height: 1.19 inches (3.016 cm)	Depth: 10 inches (25.4 cm)
	Width: 6.49 inches (16.5 cm)	Weight: <1 lb (0.45 kg) each
	(Tolerance: ± .039 inches; .100 cm)	Shipping Weight: 4 lbs (1.81 kg) (one Velocityrgb System-12 transmitter and one Velocity receiver)
Optical Cable	single-mode over one or two fibers	
	multi-mode over one or two fibers	
	(fiber is available, not supplied)	
Optical Distance	up to 65 meters with type OM1	
	up to 350 meters with type OM2	
	up to 1000 meters with type OM4	
	up to 40 kilometers with type OS2 (single-mode)	
Power Consumption	10 watts per unit	
DC Adapter	AC/DC adapter universal input 90-264 VAC (supplied)	
Compliance	approvals for US, Canada, and European Union	
Warranty	12 months from date of shipment; extended warranties available	

Copper Connectors

Velocityrgb System-12 transmitter

Video	HD15F
Audio MIC	3.5mm jack
Audio LINE	3.5mm jack
Serial Port	DB9 female (1)
Power	2.5mm power connector
Fiber Connectors	LC, SC, ST (1)
Cables Included	HD15 male to male, 2 meters (1)
	3.5 mm male to male, 2 meters (2)
	DB9 male to male, 2 meters (1)

Velocityrgb System - 12 Ordering Information

Velocityrgb System - 12 Transmitter:

Part Number and Description

SINGLE-MODE

VEL-AV0S12-SCTX

Velocity 12 RGB Video Extender Transmitter, Single Link RGB, Video Component, Local Display & VGA Port, Serial, Audio, Single Mode, SC/UPC

VEL-AV0S12-LCTX

Velocity 12 RGB Video Extender Transmitter, Single Link RGB, Video Component, Local Display & VGA Port, Serial, Audio, Single Mode, LC/UPC

VEL-AV0S12-STTX Velocity 12 RGB Video Extender Transmitter, Single Link RGB, Video Component, Local Display & VGA Port, Serial, Audio, Single Mode, ST/UPC

OPTICS OPTIONS for SINGLE-MODE VOP-S05

Velocity 12 Optics Option for Transmitter, Single Mode, Dual Fiber, 10KM, SC/UPC or ST/UPC

VOP-S11

Velocity 12 Optics Option for Transmitter, Single Mode, Dual Fiber, 10KM, LC/UPC

MULTI-MODE

VEL-AV0M12-LCTX Velocity 12 RGB Video Extender Transmitter, Single Link RGB, Video Component, Local Display, Local VGA Port, Serial, Audio, Multi-Mode, LC

VEL-AV0M12-SCTX

Velocity 12 RGB Video Extender Transmitter, Single Link RGB, Video Component, Local Display, Local VGA Port, Serial, Audio, Multi-Mode, SC

VEL-AV0M12-STTX

Velocity 12 RGB Video Extender Transmitter, Single Link RGB, Video Component, Local Display, Local VGA Port, Serial, Audio, Multi-Mode, ST

OPTICS OPTIONS for MULTI-MODE

VOP-M01 Velocity 12 Optics Option for Transmitter, Multi-Mode, Dual Fiber, 50M or 350M or 1000M, SC or ST

VOP-M04 Velocity 12 Optics Option for Transmitter, Multi-Mode, Dual Fiber, 50M or 350M or 1000M, LC

Cables

 (Qty 2)
 CBL000016-006FR
 3.5MM TO 3.5MM PLUG M/M, 6FT

 (Qty 1)
 CBL000017-006FR
 DB9M TO DB9F CABLE, 6FT

 (Qty 1)
 CBL000020-002MR
 HD15M TO HD15M CABLE, 2M

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