

Velocity^{rgb}

Video Extension System - 9

Powered by
MRTS Technology



The Logical Solution - Video Extension

The Velocity RGB System 9 permits the placement of an analog monitor or projector from just a few meters up to 10 kilometers away from the controlling computer without loss of resolution. In addition to this standout capability and performance, the Velocity RGB 9 product line merges audio and serial technologies for A/V applications. This product gives users an audio and serial port, which supports bi-directional stereo analog audio and RS-232 (two fibers required).

MRTS Technology

6.25 Gbps. Allows 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.

The System

Each system consists of a transmitter and a receiver connected 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 Velocity RGB 9 requires two fibers. The transmitter supports RGB video formats up to 165MHz. In addition, the Velocity RGB 9 has a local RGB video display port on the transmitter and is compatible with all Thinklogical Velocity fiber video receivers (except Dual-Link DVI versions), whether RGB or DVI. The receiver converts the video signal back from optical to RGB formats. In addition, two outputs are available on the receiver side for distributing the video source to two displays, eliminating the need for an external distribution amp.

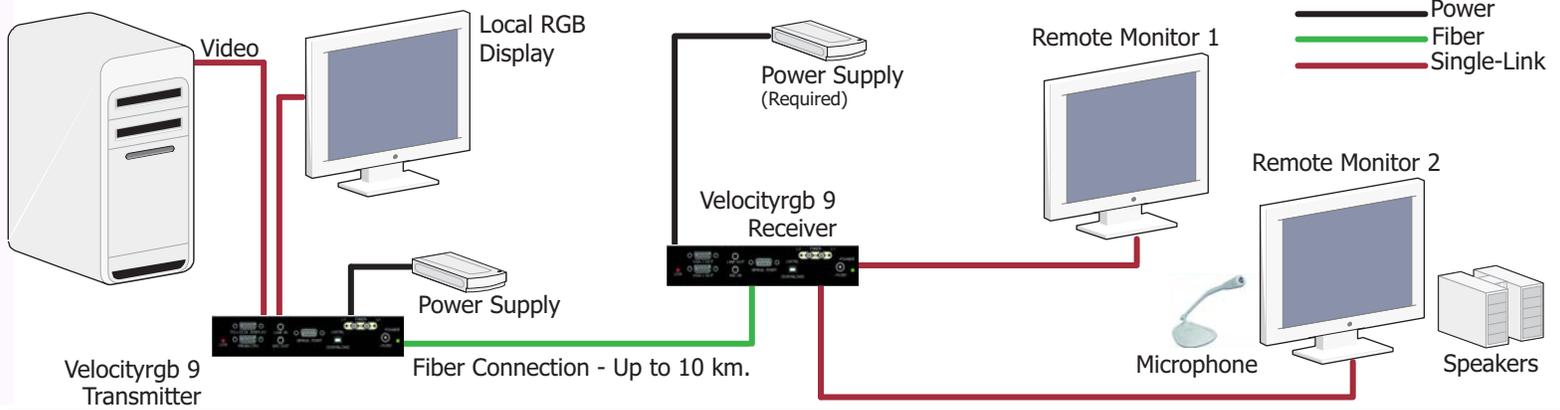
Additional Options

- Single-Mode over One or Two Fibers with SC/APC (Angle Polished Connector) or Neutrik® LC/APC Fiber Connectors to eliminate back reflections
- Multi-Mode over Two Fibers with LC, SC, ST or Neutrik® LC Fiber Connectors

Key Features

- Supports one RGB video signal
- Audio and serial port for A/V applications
- 6.25 Gbps 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
- Full DDC2B support using two fibers
- Extends RGB up to:
 - 350 meters using standard 50um multi-mode fiber
 - 1000 meters using eSX+ multi-mode fiber
 - 10 kilometers using single-mode fiber
- Local RGB display port on the transmitter
- Additional video output on the receiver
- Class 1 laser product
- Simple plug and play
- Simple form factor
- Available with LC, SC, ST and Neutrik® LC type fiber connectors
- Compatible with Thinklogical Velocitydvi video receivers for RGB to DVI conversion

Typical Application for VelocityRGB 9



Specifications

Video Resolution	RGB 1600 x 1200 @ 60Hz	
Supply Voltage	+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" (3.016cm)	Depth: 10" (25.4cm)
	Width: 6.49" (16.5cm)	Weight: <1lb (0.45kg) Each
	(Tolerance: ± .039"; .100cm)	Shipping Weight: 4lbs (1.81kg) Pair
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 50 Meters with Type OM1 Up to 1000 Meters with Type OM3 enhanced	Up to 350 Meters with Type OM2 Up to 10 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

Transmitter

Video	RGB
Audio MIC	3.5mm Jack
Audio LINE	3.5mm Jack
Serial Port	HD15 Female (2)
Power	2.5mm Power Connector
Fiber Connectors	LC, SC, ST or Neutrik® LC (1)
Cables Included	HD15 Male to Male, 2 Meters

Receiver

Video	RGB
Audio MIC	3.5mm Jack
Audio LINE	3.5mm Jack
Serial Port	HD15 Female (1)
Power	2.5mm Power Connector
Fiber Connectors	LC, SC, ST or Neutrik® LC (1)

Part Number and Description:

VELOCITYRGB 9: SINGLE-MODE

VEL-AV0S09-SCRX Velocity 9 RGB Video Extender Receiver, Single Link RGB, Local Display, AUX VGA Output, Serial, Audio, Single Mode, SC/APC
VEL-AV0S09-SCTX Velocity 9 RGB Video Extender Transmitter, Single Link RGB, Local Display & VGA Port, Serial, Audio, Single Mode, SC/APC
VEL-AV0S09-NKRX Velocity 9 RGB Video Extender Receiver, Single Link RGB, Local Display, AUX VGA Output, Serial, Audio, SM, Neutrik® LC/APC
VEL-AV0S09-NKTX Velocity 9 RGB Video Extender Transmitter, Single Link RGB, Local Display & VGA Port, Serial, Audio, SM, Neutrik® LC/APC

VELOCITYRGB 9 OPTICS OPTION for SINGLE-MODE

VOP-S05 Velocity 9 Optics Option for Transmitter or Receiver, Single Mode, Dual Fiber, 10KM, SC/APC
VOP-S11 Velocity 9 Optics Option for Transmitter or Receiver, Single Mode, Dual Fiber, 10KM, Neutrik® LC/APC

VELOCITYRGB 9: MULTI-MODE

VEL-AV0M09-LCRX Velocity 9 RGB Video Extender Receiver, Single Link RGB, Local Display, AUX VGA Output, Serial, Audio, Multi-Mode, LC
VEL-AV0M09-LCTX Velocity 9 RGB Video Extender Transmitter, Single Link RGB, Local Display, Local VGA Port, Serial, Audio, Multi-Mode, LC
VEL-AV0M09-SCRX Velocity 9 RGB Video Extender Receiver, Single Link RGB, Local Display, AUX VGA Output, Serial, Audio, Multi-Mode, SC
VEL-AV0M09-SCTX Velocity 9 RGB Video Extender Transmitter, Single Link RGB, Local Display, Local VGA Port, Serial, Audio, Multi-Mode, SC
VEL-AV0M09-STRX Velocity 9 RGB Video Extender Receiver, Single Link RGB, Local Display, AUX VGA Output, Serial, Audio, Multi-Mode, ST
VEL-AV0M09-STTX Velocity 9 RGB Video Extender Transmitter, Single Link RGB, Local Display, Local VGA Port, Serial, Audio, Multi-Mode, ST
VEL-AV0M09-NKRX Velocity 9 RGB Video Extender Receiver, Single Link RGB, Local Display, AUX VGA Output, Serial, Audio, M-Mode, Neutrik® LC
VEL-AV0M09-NKTX Velocity 9 RGB Video Extender Transmitter, Single Link RGB, Local Display & VGA Port, Serial, Audio, Multi-Mode, Neutrik® LC

VELOCITYRGB 9 OPTICS OPTIONS for MULTI-MODE

VOP-M04 Velocity 9 Optics Option for Transmitter or Receiver, Multi-Mode, Dual Fiber, 50M or 350M or 1000M, LC or Neutrik® LC
VOP-M01 Velocity 9 Optics Option for Transmitter or Receiver, Multi-Mode, Dual Fiber, 50M or 350M or 1000M, SC or ST

Contact a Thinklogical Sales Representative

Phone: (800)291-3211 (203)647-8700

Email: sales@thinklogical.com

Fax: (203)783-9949