

# Velocitydvi

Digital Video Extension System - 6  
Digital Video Extension System - 6A/V +

Powered by  
MRTS Technology

- Supports all Dual-Link DVI video resolutions
- MRTS technology 6.25Gbps allows for full frame rate transmission of uncompressed DVI
- Extends all Dual-Link DVI video signals up to 10 km
- Signal transmission via fiber optic cable; no RF interference
- Full DDC2B/EDID support using three fibers
- Flawless image quality with no frame dropping



Velocitydvi System - 6A/V +, Transmitter and Receiver

## The Logical Solution - Digital Video Extension

The Velocitydvi System - 6 is designed to support **one Dual-Link DVI display**; the Velocitydvi System - 6A/V + is designed to support **one Dual-Link DVI display, full duplex stereo audio, and serial (RS-232)**. Using multi-mode or single-mode fiber, the system allows users to locate a DVI monitor and peripherals via fiber from just a few meters up to 10 kilometers away from the controlling computer securely without the loss of resolution.

Powered by Thinklogical's cutting edge, patent-pending MRTS (Multi Rate Transmission System) technology, this extension system transports every frame of a DVI video stream seamlessly, with no compression, or dropped frames. In addition, all high speed peripherals function with no latency making it ideally suited for a wide range of applications in the broadcast and post-production field, as well as command and control centers, universities, large scale digital signage, and any other commercial KVM applications.

***thinklogical***<sup>™</sup>  
www.thinklogical.com

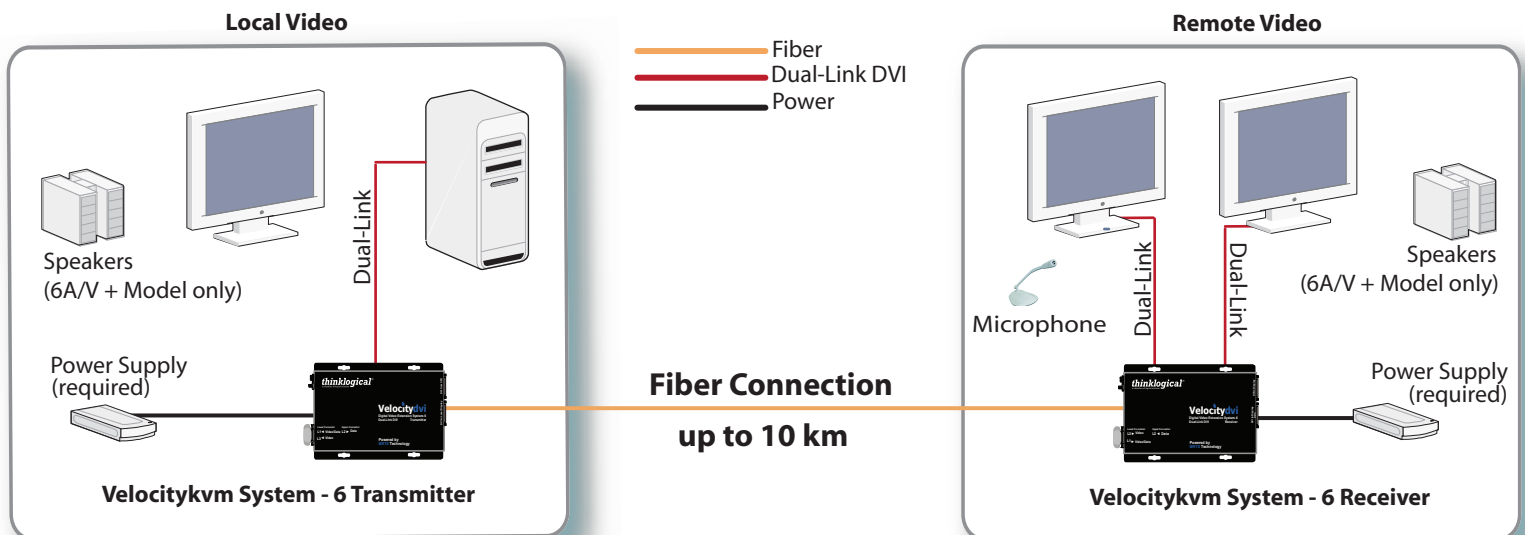
## The System

The Velocitydvi System - 6 and 6A/V + have a simple transmitter/receiver design which allows for ease of installation and straight forward deployment. Depending on the user's infrastructure, the transmitter and the receiver can be connected by multi-mode or single-mode fiber optic cable. The transmitter unit connects to the CPU with the supplied DVI-D cable. In addition, a local port is available on the transmitter. The receiver unit provides connections to the user interface devices. A +5V DC power supply is required on both units.

The **Velocitydvi System - 6A/V +** product line takes these features a step further, merging audio and serial technologies for A/V applications. This product gives users an audio and serial port, which supports bi-directional stereo analog and RS-232 (two fibers required).

Leveraging standard SFP+ transceivers, the system allows for the usage of either multi-mode or single-mode fiber optic cable. The Velocitydvi System - 6 and 6A/V + require three fibers for two way communication. Fiber one is dedicated to video, audio line out, serial, and DDC to display, fiber two is the microphone, serial, and DDC to the video source, while fiber three is the second half of the dual-link video. EDID (Extended Display Identification Data) information is provided to the CPU by either a generic table stored inside the transmitter, or from a display connected to the transmitters local port. Also, the added capability of active DDC allows the remote monitor to send its display capabilities to the CPU. Multi-mode models are available with SC, ST, or LC type fiber connectors.

The Velocitydvi System - 6 and 6A/V + are also offered in a single-mode option. Standard fiber count is three, however a model with fewer fibers is available. For the single-mode model we recommend SC/APC (Angle Polished Connector) for optimum performance.



Typical application extending DVI video using Velocitydvi System - 6  
Velocitydvi System - 6A/V + model provides A/V capability

## Key Features

- Supports all Dual-Link DVI video resolutions
- MRTS technology 6.25Gbps allows for full frame rate transmission of uncompressed DVI
- Signal transmission via fiber optic cable; no RF interference
- Requires up to three fiber optic cables depending on application
- Flawless image quality with no frame dropping
- Extends signals up to:
  - 750 meters using SX+ multi-mode fiber
  - 1000 meters using eSX+ multi-mode fiber
  - 10 kilometers using single-mode fiber
- Local video port on the transmitter
- Additional video output on the receiver
- Audio and serial port (on A/V + models only)
- DDC2B/EDID compliant
- Simple plug and play
- Available with SC-, ST-, or LC-type fiber connectors



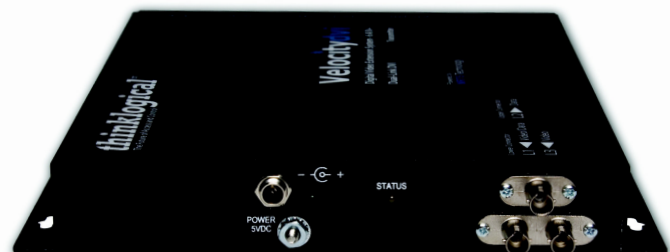
Velocitydvi Extender - 6 Front View



Velocitydvi Extender - 6 Rear View



Velocitydvi Extender - 6 A/V + Front View



Velocitydvi Extender - 6 A/V + Rear View

## Specifications

<b>Video Resolution</b>	DVI-D All Dual-Link DVI resolutions	
<b>Operating Temp.</b>	0°-50°C; (32°-122°F)	
<b>Humidity</b>	5-95% RH, non-condensing	
<b>Dimensions</b>	<b>System - 6</b>	<b>System - 6 A/V +</b>
Height:	1.19" (3.016 cm)	1.19" (3.016 cm)
Depth:	7.750" (19.7 cm)	9.9" (25.1 cm)
Width:	5.44" (13.81 cm)	5.96" (15.1 cm)
	(Tolerance: ± .039"; .100cm)	
<b>Weights</b>	<b>System - 6</b>	<b>System - 6 A/V +</b>
Weight (per unit):	1.5 lbs (0.068 kg)	1.5 lbs (0.068 kg)
Shipping Weight:	9 lbs (4.08 kg) pair	9 lbs (4.08 kg) pair
<b>Power Consumption</b>	10 watts per unit	
<b>Supply Voltage</b>	+5.0 VDC	
<b>DC Adapter</b>	AC/DC adapter universal input 90-264 VAC (2, supplied)	
<b>Optical Cable</b>	Single-Mode and Multi-Mode over Three Fibers (for fewer fiber counts contact Thinklogical) Fiber is Available, Not Supplied	
<b>Optical Distance</b>	Up to 50 meters using 62.5/125um, type OM1; Up to 350 meters using 50/125um, type OM2 Up to 750 meters using 50/125um, type OM3; Up to 1000 meters using 50/125um, type OM3 enhanced; Up to 10 kilometers using 9/125um, type OS2 (Single-Mode) (Please contact Thinklogical for distances over 10 kilometers)	
<b>Compliance</b>	Approvals for US, Canada, and European Union	
<b>Warranty</b>	12 months from date of shipment - Extended warranties available	

## Connectors

### Transmitter

Video	DVI-D (3)
Power	2.5mm power connector
Fiber Connectors	SC/APC for Single-Mode LC, SC or ST for Multi-Mode

### Receiver

Video	DVI-D (3)
Power	2.5mm power connector
Fiber Connectors	SC/APC for Single-Mode LC, SC or ST for Multi-Mode

### A/V + Models also include:

Audio MIC	3.5mm Jack	Audio MIC	3.5mm Jack
Audio LINE	3.5mm Jack	Audio LINE	3.5mm Jack
Serial Port	RJ45	Serial Port	RJ45

<b>Cables Included:</b>	DVI-D Dual-Link male to male, 2 meters
<b>A/V + Models also include:</b>	Stereo audio cable, 3.5mm to 3.5mm, 2 meters (2)
	Serial cable, RJ45 to RJ45, 2.1 meters (2)
	DB9F to RJ45 adapter
	DB9M to RJ45 adapter

## Velocitydvi System - 6 Ordering Information

### VELOCITY 6: SINGLE MODE

#### Part Number and Description

VEL-000S06-SCRX	Velocity 6 DVI Video Extender Receiver, Dual Link DVI, AUX Dual DVI Output, DDC, Single-Mode, SC/APC
VEL-000S06-SCTX	Velocity 6 DVI Video Extender Transmitter, Dual Link DVI, Local Dual DVI Port, DDC, Single-Mode, SC/APC

#### VELOCITY 6 OPTICS OPTION for SINGLE MODE

VOP-S08	Velocity 6 Optics Option for Transmitter or Receiver, Single-Mode, Three Fibers 10KM
---------	--

### VELOCITY 6: MULTI-MODE

#### Part Number and Description

VEL-000M06-LCRX	Velocity 6 DVI Video Extender Receiver, Dual Link DVI, AUX Dual DVI Output, DDC, Multi-Mode, LC
VEL-000M06-LCTX	Velocity 6 DVI Video Extender Transmitter, Dual Link DVI, Local Dual DVI Port, DDC, Multi-Mode, LC
VEL-000M06-SCRX	Velocity 6 DVI Video Extender Receiver, Dual Link DVI, AUX Dual DVI Output, DDC, Multi-Mode, SC
VEL-000M06-SCTX	Velocity 6 DVI Video Extender Transmitter, Dual Link DVI, Local Dual DVI Port, DDC, Multi-Mode, SC
VEL-000M06-STRX	Velocity 6 DVI Video Extender Receiver, Dual Link DVI, AUX Dual DVI Output, DDC, Multi-Mode, ST
VEL-000M06-STTX	Velocity 6 DVI Video Extender Transmitter, Dual Link DVI, Local Dual DVI Port, DDC, Multi-Mode, ST

#### VELOCITY 6 OPTICS OPTIONS for MULTI-MODE

VOP-M05	Velocity 6 Optics Option for Transmitter or Receiver, Multi-Mode, Three Fibers, 50M or 350M or 1000M, LC
VOP-M02	Velocity 6 Optics Option for Transmitter or Receiver, Multi-Mode, Three Fibers, 50M or 350M or 1000M, SC or ST

## Velocitydvi System - 6 A/V + Ordering Information

### VELOCITY 6 AV+: SINGLE MODE

#### Part Number and Description

VEL-AV0S06-SCRX	Velocity 6 DVI Video Extender Receiver, Dual Link DVI, AUX Dual DVI Output, DDC, Serial, Audio, Single-Mode, SC/APC
VEL-AV0S06-SCTX	Velocity 6 DVI Video Extender Transmitter, Dual Link DVI, Local Dual DVI Port, DDC, Serial, Audio, Single-Mode, SC/APC

#### VELOCITY 6 AV+ OPTICS OPTION for SINGLE MODE

VOP-S08	Velocity 6 AV+ Optics Option for Transmitter or Receiver, Single-Mode, Three Fiber,s 10KM, SC/APC
---------	---

### VELOCITY 6 AV+: MULTI-MODE

#### Part Number and Description

VEL-AV0M06-LCRX	Velocity 6 DVI Video Extender Receiver, Dual Link DVI, AUX Dual DVI Output, DDC, Serial, Audio, Multi-Mode, LC
VEL-AV0M06-LCTX	Velocity 6 DVI Video Extender Transmitter, Dual Link DVI, Local Dual DVI Port, DDC, Serial, Audio, Multi-Mode, LC
VEL-AV0M06-SCRX	Velocity 6 DVI Video Extender Receiver, Dual Link DVI, AUX Dual DVI Output, DDC, Serial, Audio, Multi-Mode, SC
VEL-AV0M06-SCTX	Velocity 6 DVI Video Extender Transmitter, Dual Link DVI, Local Dual DVI Port, DDC, Serial, Audio, Multi-Mode, SC
VEL-AV0M06-STRX	Velocity 6 DVI Video Extender Receiver, Dual Link DVI, AUX Dual DVI Output, DDC, Serial, Audio, Multi-Mode, ST
VEL-AV0M06-STTX	Velocity 6 DVI Video Extender Transmitter, Dual Link DVI, Local Dual DVI Port, DDC, Serial, Audio, Multi-Mode, ST

#### VELOCITY 6 AV+ OPTICS OPTIONS for MULTI-MODE

VOP-M05	Velocity 6 AV+ Optics Option for Transmitter or Receiver, Multi-Mode, Three Fibers, 50M or 350M or 1000M, LC
VOP-M02	Velocity 6 AV+ Optics Option for Transmitter or Receiver, Multi-Mode, Three Fibers, 50M or 350M or 1000M, SC or ST

**thinklogical<sup>™</sup>**

100 Washington Street  
Milford, CT 06460 USA

Contact a Thinklogical Sales Representative at  
sales@thinklogical.com or (203) 647-8700