

Velocitydvi

Digital Video Extension System-6

Digital Video Extension System-6 A/V+

Digital Video Extension System-6 A/V Pro

Powered by
MRTS Technology

Velocitydvi System-6
One dual link DVI display

Velocitydvi System-6 A/V+
One dual link DVI display

- full duplex audio
- serial (RS-232)

Velocitydvi System-6 A/V Pro
One dual link DVI display

- balanced audio
- serial (RS-232)

Fiber options include:

- single-mode
- multi-mode



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

The Logical Solution - Digital Video Extension

The Velocitydvi System-6, -6 A/V+, and -6 A/V Pro support **one dual link DVI display, full duplex stereo audio or balanced audio, and serial (RS-232)**. Using multi-mode or single-mode fiber, these systems allow users to locate a DVI monitor and peripherals from just a few meters up to 40 kilometers (24 miles) 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, these extension systems transport 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 these systems 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.

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www.thinklogical.com

The System

The Velocitydvi System-6, -6 A/V+, and -6 A/V Pro have a simple transmitter/receiver design that allows for ease of installation and straightforward 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 or +12V DC power supply is required on both units.

Options include:

Velocitydvi System-6	One dual link DVI display
Velocitydvi System-6 A/V+	One dual link DVI display with full duplex audio and serial (RS-232)
Velocitydvi System-6 A/V Pro	One dual link DVI display with balanced audio and serial (RS-232)

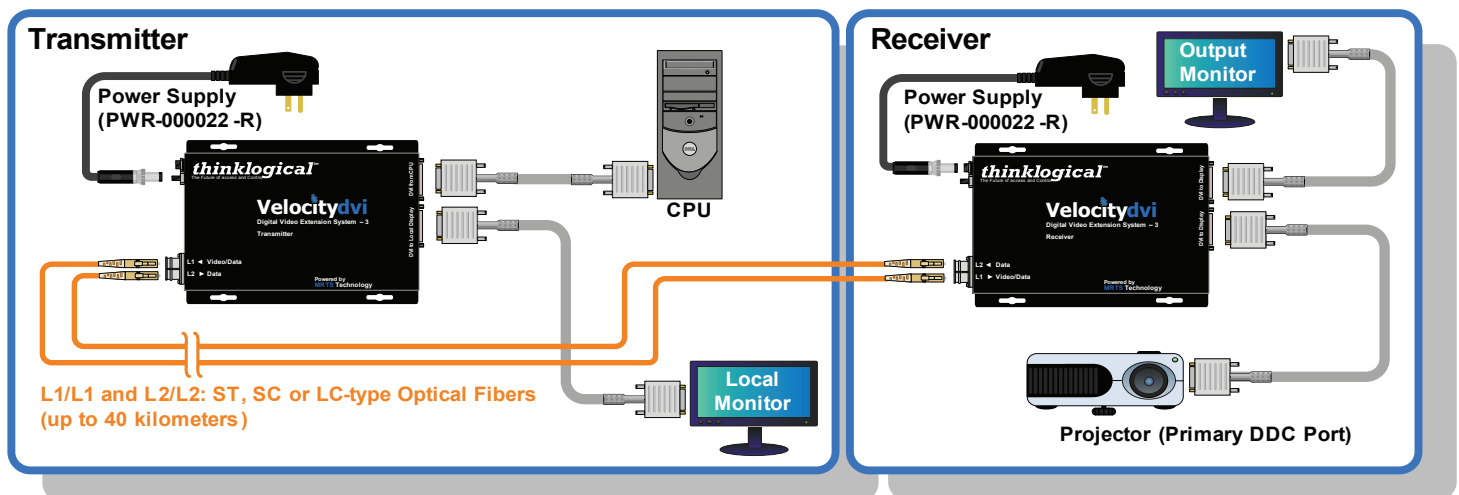
The **Velocitydvi System-6 A/V+** merges audio and serial technologies for A/V applications. This product gives users an audio and serial port, which supports bi-directional stereo analog and RS-232.

The **Velocitydvi System-6 A/V Pro** merges balanced audio and serial technologies for A/V applications. This product gives users balanced audio and serial ports, which supports bi-directional balanced audio and RS-232.

The Velocitydvi System-6, -6 A/V+ and -6 A/V Pro are also offered in a **Neutrik® connector option**. This option is a more rugged design for fiber with the capability of connecting to an opticalCON QUAD connector or the convenience of connecting to a standard LC-type fiber connector.

Leveraging standard SFP+ transceivers, the system allows for the usage of either multi-mode or single-mode fiber optic cable. **The Velocitydvi System-6, -6 A/V+, and -6 A/V Pro require three fibers** for two way communication. One fiber is dedicated to video, audio line out, serial, and DDC to display; the second fiber is the microphone, serial, and DDC to the video source; and the third fiber is the second half of the dual link video. (For one way communication, fewer fibers can be used.)

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; single-mode models are also available.

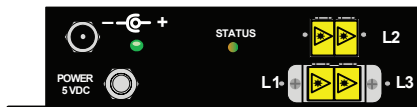


Typical Application Extending Dual Link DVI Video Using Velocitydvi System-6

Key Features

- Supports all dual link DVI video resolutions
- MRTS technology 6.22 Gbps 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
 - 40 kilometers using single-mode fiber
- Local video port on the transmitter
- Additional video output on the receiver
- Audio and serial ports (on A/V+ models only)
- Balanced audio and serial ports (on A/V Pro models only)
- DDC2B/EDID compliant
- Simple plug and play
- Available with SC-, ST-, or LC-type fiber connectors
- Available with a Neutrik® fiber connector for rugged applications

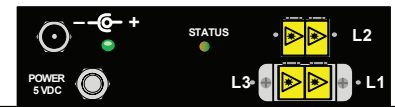
Back View



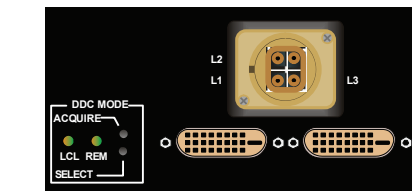
VEL-6 TX Fiber Side



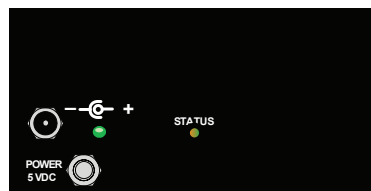
VEL-6 TX and RX Connector Side



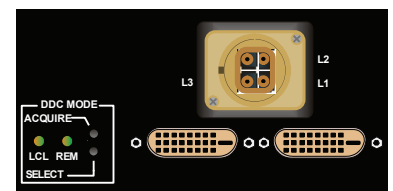
VEL-6 RX Fiber Side



VEL-6 TX Connector/Fiber (Neutrik®) Side



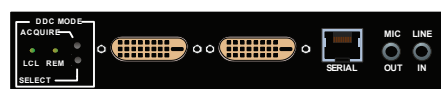
VEL-6 TX and RX Power Side



VEL-6 RX Connector/Fiber (Neutrik®) Side



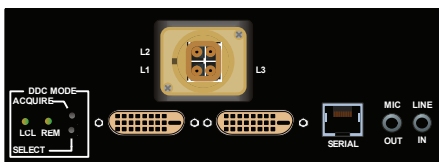
VEL-6 A/V+ TX Fiber Side



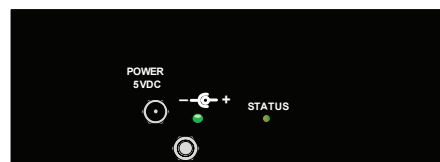
VEL-6 A/V+ TX and RX Connector Side



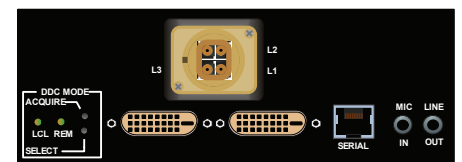
VEL-6 A/V+ RX Fiber Side



VEL-6 A/V+ TX Connector/Fiber (Neutrik®) Side



VEL-6 A/V+ TX and RX Power Side



VEL-6 A/V+ RX Connector/Fiber (Neutrik®) Side

Specifications

Video Resolution	DVI-D all dual link DVI resolutions			
Operating Temp.	0° – 50°C (32° – 122°F)			
Humidity	5-95% RH, non-condensing			
Dimensions	System-6	-6 A/V+, -6 A/V Pro	System-6 with Neutrik	-6 A/V+, -6 A/V Pro w/ Neutrik
Height:	1.1 inch (27.94 mm)	1.1 inch (27.94 mm)	2.44 inches (61.98 mm)	2.44 inches (61.98 mm)
Depth:	7.75 inches (196.85 mm)	7.75 inches (196.85 mm)	7 inches (177.8 mm)	7 inches (177.8 mm)
Width:	5.5 inches (139.7 mm)	7.5 inches (190.5 mm)	5.375 inches (136.53 mm)	7.5 inches (190.5 mm)
	(tolerance: ± .039 inches; 1 mm)			
Weights	System-6	-6 A/V+, -6 A/V Pro	System-6 with Neutrik	-6 A/V+, -6 A/V Pro w/ Neutrik
Weight (per unit):	1 lb (0.45 kg)	1 lb (0.45 kg)	1.5 lb (0.68 kg)	1.5 lb (0.68 kg)
Shipping Weight:	9 lbs (4.08 kg) pair	9 lbs (4.08 kg) pair	9.5 lbs (4.3 kg) pair	9.5 lbs (4.3 kg) pair
Power Consumption	10 watts per unit			
Supply Voltage	+5.0 VDC for System-6 and System-6 A/V+; +12.0 VDC for System-6 A/V Pro			
DC Adapter	AC/DC adapter universal input 90-264 VAC (2, supplied)			
Optical Cable	single-mode and multi-mode over two or three fibers (fiber is available, not supplied)			
Optical Distance	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 40 kilometers using 9/125um, type OS2 (single-mode)			
Compliance	approvals for US, Canada, and European Union			
Warranty	12 months from date of shipment - extended warranties available			

Connectors

Velocitydvi System-6, -6 A/V+, -6 A/V Pro Transmitter

Video	DVI-D (3)
Power	2.5mm power connector
Fiber Connectors	SC/APC, SC/UPC or LC/UPC for single-mode LC, SC or ST for multi-mode opticalCON QUAD connector for Neutrik® option

Velocitydvi System-6 A/V+ Transmitter

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

Velocitydvi System-6 A/V Pro

Line Input (2)	
Type:	0.25 inch TRS jack, balanced terminal block plug, 3 position
Impedance:	24K Ohm balanced
Max Input Level:	+11 dBu balanced
Line Output (2)	
Type:	0.25 inch TRS jack, balanced terminal block plug, 3 position
Impedance:	100K Ohm balanced
Max Input Level:	+12 dBu balanced
Input/Output	
Frequency/Response:	20 Hz–20 KHz
Input/Output Gain:	+1.0 db balanced
Signal-to-noise ratio:	90 db referenced to 0 dBu
Sample Rate:	43.39 KHz
Sample Width:	24 bit delta-sigma

Receiver

Video	DVI-D (3)
Power	2.5mm power connector
Fiber Connectors	SC/APC, SC/UPC or LC/UPC for single-mode LC, SC or ST for multi-mode opticalCON QUAD connector for Neutrik

Receiver

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

Cables

Velocitydvi System-6

DVI-D male to male, 2 meters

Velocitydvi System-6 A/V +, -6 A/V Pro

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, -6 A/V+, -6 A/V Pro Ordering Information

Velocitydvi System-6: single-mode

Part Number	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

Velocitydvi System-6: multi-mode

Part Number	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

Velocitydvi System-6 A/V+: single-mode

Part Number	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

Velocitydv System-6 A/V+: multi-mode

Part Number	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

Velocitydvi System-6, -6 A/V+, -6 A/V Pro optics options: single-mode

Part Number	Description
VOP-S08	Velocity 6 Optics Option for Transmitter or Receiver, Single-Mode, Three Fibers 10KM
VOP-S12	Velocity 6 Optics Option for Transmitter or Receiver, Single Mode, Three Fibers, 10KM, LC/UPC or Neutrik® LC/UPC

Velocitydvi System-6, -6 A/V+, -6 A/V Pro optics options: multi-mode

Part Number	Description
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 Pro: single-mode, removable terminal block**Part Number Description**

VEL-AB0S06-LCRX	Velocity 6 DVI Video Extender RX, Dual Link DVI, AUX Dual DVI Output, DDC, Serial, Bal. Audio, Terminal Block, SM, LC/UPC
VEL-AB0S06-LCTX	Velocity 6 DVI Video Extender TX, Dual Link DVI, Local Dual DVI Port, DDC, Serial, Bal. Audio, Terminal Block, SM, LC/UPC
VEL-AB0S06-SCRX	Velocity 6 DVI Video Extender RX, Dual Link DVI, AUX Dual DVI Output, DDC, Serial, Bal. Audio, Terminal Block, SM, SC/UPC
VEL-AB0S06-SCTX	Velocity 6 DVI Video Extender TX, Dual Link DVI, Local Dual DVI Port, DDC, Serial, Bal. Audio, Terminal Block, SM, SC/UPC
VEL-AB0S06-STRX	Velocity 6 DVI Video Extender RX, Dual Link DVI, AUX Dual DVI Output, DDC, Serial, Bal. Audio, Terminal Block, SM, ST/UPC
VEL-AB0S06-STTX	Velocity 6 DVI Video Extender TX, Dual Link DVI, Local Dual DVI Port, DDC, Serial, Bal. Audio, Terminal Block, SM, ST/UPC
VEL-AB0S06-NKRX	Velocity 6 DVI Video Extender RX, Dual Link DVI, AUX Dual DVI Output, DDC, Serial, Bal. Audio, Ter. Block, SM, Neutrik® LC/UPC
VEL-AB0S06-NKTX	Velocity 6 DVI Video Extender TX, Dual Link DVI, Local Dual DVI Port, DDC, Serial, Bal. Audio, Ter. Block, SM, Neutrik® LC/UPC

Velocitydvi System-6 A/V Pro: multi-mode, removable terminal block**Part Number Description**

VEL-AB0M06-LCRX	Velocity 6 DVI Video Extender RX, Dual Link DVI, AUX Dual DVI Output, DDC, Serial, Balanced Audio, Terminal Block, MM, LC
VEL-AB0M06-LCTX	Velocity 6 DVI Video Extender TX, Dual Link DVI, Local Dual DVI Port, DDC, Serial, Balanced Audio, Terminal Block, MM, LC
VEL-AB0M06-SCRX	Velocity 6 DVI Video Extender RX, Dual Link DVI, AUX Dual DVI Output, DDC, Serial, Balanced Audio, Terminal Block, MM, SC
VEL-AB0M06-SCTX	Velocity 6 DVI Video Extender TX, Dual Link DVI, Local Dual DVI Port, DDC, Serial, Balanced Audio, Terminal Block, MM, SC
VEL-AB0M06-STRX	Velocity 6 DVI Video Extender RX, Dual Link DVI, AUX Dual DVI Output, DDC, Serial, Balanced Audio, Terminal Block, MM, ST
VEL-AB0M06-STTX	Velocity 6 DVI Video Extender TX, Dual Link DVI, Local Dual DVI Port, DDC, Serial, Balanced Audio, Terminal Block, MM, ST
VEL-AB0M06-NKRX	Velocity 6 DVI Video Extender RX, Dual Link DVI, AUX Dual DVI Output, DDC, Serial, Bal. Audio, Term. Block, MM, Neutrik® LC
VEL-AB0M06-NKTX	Velocity 6 DVI Video Extender TX, Dual Link DVI, Local Dual DVI Port, DDC, Serial, Bal. Audio, Term. Block, MM, Neutrik® LC

Velocitydvi System-6 A/V Pro: single-mode, tip ring sleeve**Part Number Description**

VEL-AR0S06-LCRX	Velocity 6 DVI Video Extender RX, Dual Link DVI, AUX Dual DVI Output, DDC, Serial, Bal. Audio, Tip Ring Sleeve, SM, LC/UPC
VEL-AR0S06-LCTX	Velocity 6 DVI Video Extender TX, Dual Link DVI, Local Dual DVI Port, DDC, Serial, Bal. Audio, Tip Ring Sleeve, SM, LC/UPC
VEL-AR0S06-SCRX	Velocity 6 DVI Video Extender RX, Dual Link DVI, AUX Dual DVI Output, DDC, Serial, Bal. Audio, Tip Ring Sleeve, SM, SC/UPC
VEL-AR0S06-SCTX	Velocity 6 DVI Video Extender TX, Dual Link DVI, Local Dual DVI Port, DDC, Serial, Bal. Audio, Tip Ring Sleeve, SM, SC/UPC
VEL-AR0S06-STRX	Velocity 6 DVI Video Extender RX, Dual Link DVI, AUX Dual DVI Output, DDC, Serial, Bal. Audio, Tip Ring Sleeve, SM, ST/UPC
VEL-AR0S06-STTX	Velocity 6 DVI Video Extender TX, Dual Link DVI, Local Dual DVI Port, DDC, Serial, Bal. Audio, Tip Ring Sleeve, SM, ST/UPC
VEL-AR0S06-NKRX	Velocity 6 DVI Video Extender RX, Dual Link DVI, AUX Dual DVI Output, DDC, Serial, Bal. Audio, R. Sleeve, SM, Neutrik® LC/UPC
VEL-AR0S06-NKTX	Velocity 6 DVI Video Extender TX, Dual Link DVI, Local Dual DVI Port, DDC, Serial, Bal. Audio, R. Sleeve, SM, Neutrik® LC/UPC

Velocitydvi System-6 A/V Pro: multi-mode, tip ring sleeve**Part Number Description**

VEL-AR0M06-LCRX	Velocity 6 DVI Video Extender RX, Dual Link DVI, AUX Dual DVI Output, DDC, Serial, Balanced Audio, Tip Ring Sleeve, MM, LC
VEL-AR0M06-LCTX	Velocity 6 DVI Video Extender TX, Dual Link DVI, Local Dual DVI Port, DDC, Serial, Balanced Audio, Tip Ring Sleeve, MM, LC
VEL-AR0M06-SCRX	Velocity 6 DVI Video Extender RX, Dual Link DVI, AUX Dual DVI Output, DDC, Serial, Balanced Audio, Tip Ring Sleeve, MM, SC
VEL-AR0M06-SCTX	Velocity 6 DVI Video Extender TX, Dual Link DVI, Local Dual DVI Port, DDC, Serial, Balanced Audio, Tip Ring Sleeve, MM, SC
VEL-AR0M06-STRX	Velocity 6 DVI Video Extender RX, Dual Link DVI, AUX Dual DVI Output, DDC, Serial, Balanced Audio, Tip Ring Sleeve, MM, ST
VEL-AR0M06-STTX	Velocity 6 DVI Video Extender TX, Dual Link DVI, Local Dual DVI Port, DDC, Serial, Balanced Audio, Tip Ring Sleeve, MM, ST
VEL-AR0M06-NKRX	Velocity 6 DVI Video Extender RX, Dual Link DVI, AUX Dual DVI Output, DDC, Serial, Bal. Audio, Ring Sleeve, MM, Neutrik® LC
VEL-AR0M06-NKTX	Velocity 6 DVI Video Extender TX, Dual Link DVI, Local Dual DVI Port, DDC, Serial, Bal. Audio, T. Ring Sleeve, MM, Neutrik® LC

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