

## VelocityKVM

Thinklogical's VelocityKVM systems offer best-in-class fiber optic performance with advanced video, audio and peripheral capabilities. VelocityKVM extenders offer 6.25Gbps bandwidth, to achieve *uncompressed, high resolution video with no latency, lost frames or artifacts*. Systems are simple plug and play designs, utilizing either multi-mode or single mode fiber. For routing applications, VelocityKVM systems are compatible with Thinklogical's MX and VX Series Routers, scalable from 5 to 640 ports.

Powered by

### MRTS Technology

VelocityKVM systems are powered by **Thinklogical's patented Multi-Rate Transmission System (MRTS) technology**, which enables multiple data signals (video, audio and peripheral) to be transmitted up to 80km, over a single data stream. MRTS completely reconstructs the data clocks at the destination, to offer perfect synchronization with each transmitted stream.

**VelocityKVM systems are highly customizable, to ideally suit any application.**

**VelocityKVM systems offer support for:**

#### Video Signals

- Single-Link DVI
- Dual-Link DVI
- RGB

#### Audio Signals

- Bidirectional unbalanced analog stereo audio
- Bidirectional digital audio channel (AES3, TRS or S/PDIF, TOSLINK or RCA)

#### Peripheral Signals

- DDC
- Serial (RS-232 or RS-422)
- Stereo Emitter
- PS/2
- USB HID
- USB 2.0 (480Mbps)
- 10/100 Network
- FireWire 800

## Optional Configurations

### Redundant Fiber Path

To further ensure system reliability, Thinklogical offers a Redundant Fiber Path. This intelligent fiber redundancy system uses twice the fiber from the transmitter, to provide two identical data streams. In the event of a loss of signal on one fiber stream, the system automatically fails over to the second stream, to maintain signal. For systems that cannot tolerate downtime, fiber redundancy provides continuous operation.

### Multipath

To incorporate VelocityKVM into a 4G system, Thinklogical splits the 6.25G signal over two 4G data streams. Multipath systems require an additional fiber per video stream.

### Separate Video from Audio and Peripheral Data

MRTS technology transmits video, audio and peripheral data over a single fiber, delivering data to a single destination. For applications where the video signal must be sent to a different location than the audio and peripheral signals, Thinklogical offers a Separate Data Path option. Video can be sent to a video wall, while the peripheral data from the same source is sent to a desktop. At the desktop, the user can control the video at the wall.

When a system requires only the separation of audio from video and peripheral data, Thinklogical offers a Separate Audio Path. The audio signal transmits independently of video and peripheral data, allowing the audio to be projected over a sound system, while the video is displayed at a desk or at the video wall.

### Color Correction Receivers

Thinklogical has integrated SpectraCal's color calibration technology into VelocityKVM Receivers. After accurate color specification is determined, the resulting lookup tables are downloaded into Thinklogical's receiver. The receiver then controls the display's settings to adjust the image to match the original content. This system eliminates the need for a set of color correction devices for each individual display, as well as the need to access those devices on a display by display basis. For more information on how Color Correction Receivers provide exceptional benefits for an easy integration and save install time and costs, please reference Thinklogical's Color Correction Receiver Data Sheet.

VelocityKVM extenders are available in several form factors, from rack mount units, to compact chassis for use at the desktop. All chassis types are completely compatible, so users can mix-and-match to reduce the overall footprint of the design.

## Fixed Chassis

Thinklogical's fixed, 1RU extenders offer advanced support for numerous video, audio and peripheral extension applications. Each unit is rack mountable and supports a single receiver or transmitter. As receivers are often co-located with users, Thinklogical utilizes exceptionally quiet fans, which only operate when the temperature of the unit begins to increase, to reduce noise and maximize workflow.

## Modular Chassis

Thinklogical offers a variety of modular chassis for VelocityKVM systems. Thinklogical's modular systems allow users to create a flexible, custom, space-saving and easily scalable product. Choose from the resilient, rack mount chassis (housing up to two extenders per single rack unit) or from the more compact, space-saving design for use at the desktop. All modular chassis extenders offer a dry contact annunciator, providing an alarm warning for power failures or increased temperatures. For enhanced resiliency, each extender module is hot-swappable, complete with hot-swappable optical modules. As a system design evolves, easily convert a unit from multi-mode to single mode or swap the module to easily reconfigure a system to meet new requirements. Modular chassis includes fans to keep the system cool, and emit virtually no detectable sound to interfere with the local user.

### Modular Chassis

#### Desktop Chassis

##### *Space Saving at the Desktop*

The compact design of the ½RU Desktop Chassis is ideal for use on or mounted below the desktop. The modular design is **configurable with a single Desktop transmitter or receiver module**.

**Modular Extenders**  
*enhance system*



*flexibility,  
customization,  
scalability, and  
space-savings.*

#### T-Series 4200 Chassis

##### *Space Saving at the Rack & Desktop*

The rack mountable T-4200 chassis is ideal for high density applications, where space may be limited. The 1RU, modular design is **configurable with up to two T-Series transmitter or receiver modules**, in any combination - as a dual transmitter, dual receiver or transceiver.

*See also, Compact T-4200 Chassis in Specifications.*

##### *Redundant Power Supplies*

The T-4200 and T-Q4200 Chassis are ideal for 24/7 environments, where minimal downtime is critical. The system is designed with redundant, current-sharing and hot-swappable power supplies. In the unlikely event that one power module fails, the second automatically fails over to power the unit with no delay or data loss. The failed module may be swapped out, without ever powering down the unit or interrupting operations. (Not available on Compact T-4200 Chassis)

#### T-Series Q-4200 Chassis

##### *T- and Q-Series in a Single Chassis*

The rack mountable T-Q4200 chassis offers increased flexibility, for systems utilizing both T-Series and Q-Series extender modules. The 1RU, modular design is **configurable with a single T-Series transmitter or receiver module and up to two Q-Series modules**, in any combination.





Fixed Chassis



Desktop Chassis



T-Series Q-4200 Chassis



T-Series Compact Chassis



T-Series 4200 Chassis



Hot-Swappable Extender Modules



Specifications	Fixed	Desktop	Compact T-4200	T-4200	T-Q4200
Environmental	Operating Temperature: 0°C-50°C; Humidity: 5-95% RH, non-condensing				
Compliance	Approvals for United States of America, Canada, and European Union				
Warranty	One year · Extended warranties available for purchase				
Mounting Brackets	19" Rack Mounting Hardware Included Surface Mounting Hardware, order (2) ENC-001598-R	Surface Mounting Hardware Included 19" Rack Mounting Hardware, order (2) ENC-001541-R	19" Rack Mounting Hardware Included Surface Mounting Hardware, order (2) ENC-001598-R	19" Rack Mounting Hardware Included Surface Mounting Hardware, order (2) ENC-001598-R	19" Rack Mounting Hardware Included Surface Mounting Hardware, order (2) ENC-001598-R
Power Consumption	25-35 Watts, See extender	1 Watt (16 Watts Loaded)	1 Watt (31 Watts Loaded)	1 Watt (31 Watts Loaded)	5 Watt (40 Watts Loaded)
Supply Voltage	Universal AC Power Supply, 100-240VAC, 47-63Hz (1)			Universal AC Power Supply, 100-240VAC, 47-63Hz (2)	
Weight	8.50lbs (3.86kg)	3.00lbs (1.36kg) 4.00lbs (1.81kg) Loaded	7.00lbs (3.18kg) 9.00lbs (4.08kg) Loaded	8.00lbs (3.63kg) 10.00lbs (4.54kg) Loaded	8.00lbs (3.63kg) 10.00lbs (4.54kg) Loaded
<b>Dimensions</b>					
Rack Size (w/ mounting hardware)	EIA 19" (483.36mm)	11.98" (304.29mm)	EIA 19" (483.36mm)	EIA 19" (483.36mm)	EIA 19" (483.36mm)
Width (w/o mounting hardware)	17.49" (444.25mm)	10.74" (272.80mm)	17.49" (444.25mm)	17.49" (444.25mm)	17.49" (444.25mm)
Height	1RU · 1.72" (43.69mm)	1RU · 1.72" (43.69mm)	1RU · 1.72" (43.69mm)	1RU · 1.72" (43.69mm)	1RU · 1.72" (43.69mm)
Depth	14.94" (379.53mm)	11.52" (292.61mm)	8.91" (226.31mm)	15.56" (395.22mm)	15.56" (395.22mm)
Tolerance	± 0.039" (1.00mm)	± 0.039" (1.00mm)	± 0.039" (1.00mm)	± 0.039" (1.00mm)	± 0.039" (1.00mm)
<b>Connectors</b>					
Software Updates	See Extender Data Sheet	See Extender Module	See Extender Module	See Extender Module	See Extender Module
<b>Cables Included</b>					
	AC Power Cable (1)	AC Power Cable (1)	AC Power Cable (1)	AC Power Cable (2)	AC Power Cable (2)

For use with Desktop Modules, T-Series Modules and Q-Series Modules.

Modules will not operate without a chassis.

## Ordering Information

Part Number		VED-000001	VCS-004200	VTS-004200	VTS-Q04200
Description	Fixed Extenders do not require an additional chassis, see Ordering Information on corresponding extender data sheet.	Desktop Modular Chassis Configure with a single Desktop Module	T-Series Compact 4200 Modular Chassis Configure with up to two T-Series Compact 4 Modules	T-Series 4200 Modular Chassis Configure with up to two T-Series Modules Redundant power supplies	T-Series Q-4200 Modular Chassis Configure with a single T-Series Module and up to two Q-Series Modules Redundant power supplies

## VelocityKVM · Product Features

PRODUCT FEATURES				STANDARD FEATURES										CONFIGURABLE FEATURES									
Product Name		Video Heads		Video Signals			Additional Features			Control		Peripheral Signals					Fiber Connectors						
All models available as Transmitter or Receiver	1	2	3	4	Single Link DVI	Dual Link DVI	RGB	TX Local Output RX Aux Output	3D Emitter	Fiber Count	DDC	RS-232	RS-422	Unbalanced Analog Stereo	USB HID	PS/2	USB 2.0	10/100 Network	FireWire 800	Professional Audio	LC	SC	ST
	Fixed Extenders (19" Rackmount, 1RU)																						
	VEL-04	✓				✓			✓	✓	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	VEL-05	✓				✓		✓	✓	✓	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	VEL-08	✓					✓		✓	✓	3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VEL-24		✓			✓			✓	✓	3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
VEL-28		✓			✓	✓		✓ (TX Only)	✓	4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
VEL-34				✓	✓				✓	5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
VEL-35			✓		✓				✓	4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
VEL-38		✓				✓		✓ (TX Only)	✓	5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Desktop Modular Extenders (½RU each: 1 Module per Desktop Chassis)																							
VDM-04	✓				✓			✓	✓	2	✓	✓	✓	✓	✓	✓	✓	✓				✓	
VDM-05	✓				✓		✓	✓	✓	2	✓	✓	✓	✓	✓	✓	✓	✓				✓	
VDM-08	✓					✓		✓	✓	3	✓	✓	✓	✓	✓	✓	✓	✓				✓	
VDM-24		✓			✓				✓	3	✓	✓	✓	✓	✓	✓	✓	✓				✓	
T-Series Modular Extenders (½RU each: 2 Modules per T-Series 4200 Chassis, 1 Module per T-Series Q4200 Chassis)																							
VTM-04	✓				✓			✓	✓	2	✓	✓	✓	✓	✓	✓	✓	✓				✓	
VTM-05	✓				✓		✓	✓	✓	2	✓	✓	✓	✓	✓	✓	✓	✓				✓	
VTM-08	✓					✓		✓	✓	3	✓	✓	✓	✓	✓	✓	✓	✓				✓	
VTM-24		✓			✓				✓	3	✓	✓	✓	✓	✓	✓	✓	✓				✓	
T-Series Compact Modular Extenders (½RU each: 2 Modules per T-Series Compact 4200 Chassis, Receiver Only)																							
VCM-04	✓				✓					2	✓	✓	✓	✓	✓	✓	✓	✓				✓	

Additional Configurable Features			Additional Fibers Required	
Available on all models			Fibers Required	
Multi-Mode (Extension up to 1000m) or Single Mode (Extension up to 80km)			0	
Redundant Optic Path(s)			x2	
Separate Data Path			+1	
Separate Audio Paths			+2	
Color Correction (Receiver Only)			0	
Multipath			+1/video stream	

### MRTS Technology

VelocityKVM extension systems utilize *Thinklogical's patented Multi-Rate Transmission System (MRTS) Technology*. MRTS enables multiple data streams of uncompressed video, audio and peripheral signals to be combined and transmitted over distances of up to 80km over a single fiber optic cable at 6.25Gbps bandwidth. This architecture enables a solution that delivers video content and data with no latency, artifacts or lost frames, and with a minimum number of system components and fiber connections.

# StudioPRO

Thinklogical's StudioPRO systems offer best-in-class fiber optic performance with advanced video, audio and peripheral capabilities. StudioPRO extenders offer 6.25Gbps bandwidth, to achieve *uncompressed, high resolution video with no latency, lost frames or artifacts*. Systems are simple plug and play designs, utilizing either multi-mode or single mode fiber. StudioPRO systems are compatible with VelocityKVM Extenders and for routing applications, with Thinklogical's MX and VX Series Routers, scalable from 5 to 640 ports.

Powered by  
**MRTS Technology**

StudioPRO systems are powered by **Thinklogical's patented Multi-Rate Transmission System (MRTS) technology**, which enables multiple data streams (video, audio and peripheral) to be transmitted up to 80km, over a single data stream. MRTS completely reconstructs the data clock at the destination, to offer perfect synchronization with each transmitted stream.

**StudioPRO systems offer a reduced configuration of Thinklogical's VelocityKVM Extenders. StudioPRO extenders provide a more cost effective solution for users who have no serial, stereo emitter, analog stereo, USB HID or PS/2 requirements.**

**StudioPRO systems offer support for:**

#### Video Signals

- Single-Link DVI
- Dual-Link DVI

#### Audio Signals

- Embedded Audio

#### Peripheral Signals

- DDC
- USB 2.0 (480Mbps)

## Product Features

PRODUCT FEATURES	STANDARD FEATURES								CONFIGURABLE FEATURES			
Product Name	Video Heads			Video Signals		Additional Features		Control	Peripheral Support	Fiber Connectors		
All models available as Transmitter or Receiver	1	2	6	Single Link DVI	Dual Link DVI	TX Local Output RX Aux Output	Fiber Count	DDC	USB 2.0	LC	SC	ST
<b>Extenders</b>												
StudioPRO SL	✓			✓		✓	2	✓	✓	✓	✓	✓
StudioPRO 2SL		✓		✓			3	✓	✓	✓	✓	✓
StudioPRO 6SL (TX Only)			✓	✓			9	✓	✓	✓		
StudioPRO DL	✓				✓	✓	3	✓	✓	✓	✓	✓



## StudioPRO SL Single Head Single-Link DVI Display



**Transmitter**  
Front and Backpanel



**Receiver**  
Front and Backpanel



### The System

StudioPRO systems have a simple transmit and receive design. The StudioPRO Transmitter connects to the source to receive video, audio and peripheral data. The data is multiplexed with Thinklogical's patented MRTS Technology, and transmitted over 6.25Gbps SFP+ technology for up to 80 kilometers. Fiber provides a secure connection from the transmitter to the receiver, where MRTS Technology demultiplexes the data stream to deliver uncompressed, high resolution video, audio and peripheral data to the destination.

A StudioPRO SL system requires two fibers for the standard configuration. The forward channel is dedicated to transmitting video, audio and peripheral data from the source to the destination. The return channel is dedicated to transmitting DDC/EDID and peripheral data from the destination to the source. All Thinklogical StudioPRO systems are configurable with multi-mode or single mode fiber.

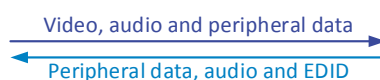
The StudioPRO SL extension systems are designed to support **one single-link DVI display and USB 2.0**. Systems are custom configurable to also support LC, SC or ST connector types.-

StudioPRO extenders provide a more cost effective KVM solution for users who have no serial, stereo emitter, analog stereo, USB HID or PS/2 requirements. For these features, and additional functionality, including 10/100 Network, FireWire 800 and Professional (Digital) Audio, see Thinklogical's VelocityKVM Extension Systems.

#### Source



MRTS Technology provides full bandwidth connectivity over a fiber connection of up to 80km



#### Destination



### PRODUCT FEATURES

Standard



Single Head



Single-Link DVI



TX Local RX Aux



USB 2.0

Configurable



Fiber Connectors

## StudioPRO SL · Single Head Single-Link DVI Display

### Specifications

Video Resolution	DVI-D, all single-link DVI resolutions (maximum 165MHz pixel clock)
Optical Cable	Two (2) multi-mode or single mode fiber optic cables, for fewer fibers contact Thinklogical (fiber not supplied, available for purchase)
Optical Distance	Multi-Mode up to 1000m 65m: OM1 (62.5/125); 350m: OM2 (50/125); 750m: OM3 (50/125 SX+); 1000m: OM4 (50/125eSX+) Single Mode up to 80km All Distances: OS2 (9/125)
Optical Wavelength	Multi-Mode: 850nm; Single Mode: 1310nm (CWDM and DWDM wavelengths available, contact Thinklogical for further information)
Data Rate	Forward channel: 6.25Gbps; Back Channel: 2Gbps
Environmental	Operating Temperature: 0°C-50°C; Humidity: 5-95% RH, non-condensing
Compliance	Approvals for United States of America, Canada, and European Union
Warranty	One year · Extended warranties available for purchase
Mounting Brackets	Surface Mounting Brackets Included
Power Consumption	15 Watts
Supply Voltage	+5V DC, 4A, AC/DC Adapter Universal Input 100-240VAC, 50/60Hz
Weight	1.50lbs (0.68kg)

### Dimensions

Rack Size	EIA 19"; To rack mount use (2) ENC-000205-R (not included)
Height x Width x Depth	1.72" (43.74mm) x 9.04" (229.62mm) with mounting brackets x 7.39" (187.58mm)
Tolerance	± 0.039" (1.00mm)

### Connectors

Video	DVI-D (2)
USB 2.0	TX: USB B (1); RX: USB A (4)
Fiber Connectors	LC, SC or ST (1)

### Cables Included

Transmitter	(1) 5 Volt, 4 Amp Wall Mount (PWR-000022-R) (1) DVI-D Single-Link Male to Male, 2 Meters (CBL000009-002MR) (1) USB A-B, 1.8 Meters (CBL000015-006FR)
Receiver	(1) 5 Volt, 4 Amp Wall Mount (PWR-000022-R)

### Ordering Information

**V E L - S P O S L** -            

**M** Multi-Mode  
**S** Single Mode

**LC** LC Fiber Connectors  
**SC** SC Fiber Connectors  
**ST** ST Fiber Connectors

**TX** Transmitter  
**RX** Receiver  
**RC** Receiver with Color Correction

### Common Configurations

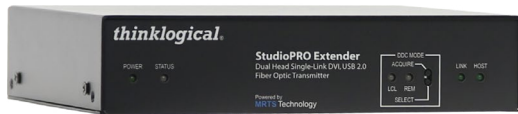
<b>VEL-SPOMSL-LCTX</b>	Studio PRO SL Transmitter, Single Head, Single-Link DVI, USB 2.0, Multi-Mode, LC
<b>VEL-SPOMSL-LCRX</b>	Studio PRO SL Receiver, Single Head, Single-Link DVI, USB 2.0, Multi-Mode, LC
<b>VEL-SPOSSL-LCTX</b>	Studio PRO SL Transmitter, Single Head, Single-Link DVI, USB 2.0, Single Mode, LC
<b>VEL-SPOSSL-LCRX</b>	Studio PRO SL Receiver, Single Head, Single-Link DVI, USB 2.0, Single Mode, LC
<b>VEL-SPOMSL-SCTX</b>	Studio PRO SL Transmitter, Single Head, Single-Link DVI, USB 2.0, Multi-Mode, SC
<b>VEL-SPOMSL-SCRX</b>	Studio PRO SL Receiver, Single Head, Single-Link DVI, USB 2.0, Multi-Mode, SC

For additional customization, Thinklogical utilizes a single **Optics Package (VOP)** per extender, available in Multi-Mode or Single Mode, allowing extension of up to 1000m, 10km, 40km or 80km.

For example, when ordering a standard StudioPRO SL with LC fiber connectors, select from the following VOP's:

**VOP-M04** for Multi-Mode Extension up to 1000m  
**VOP-S11** for Single Mode Extension up to 10km  
**VOP-S33** for Single Mode Extension up to 40km

## StudioPRO 2SL· Dual Head Single-Link DVI Displays



**Transmitter**  
Front and Backpanel



**Receiver**  
Front and Backpanel

### The System

StudioPRO systems have a simple transmit and receive design. The StudioPRO Transmitter connects to the source to receive video, audio and peripheral data. The data is multiplexed with Thinklogical's patented MRTS Technology, and transmitted over 6.25Gbps SFP+ technology for up to 80 kilometers. Fiber provides a secure connection from the transmitter to the receiver, where MRTS Technology demultiplexes the data stream to deliver uncompressed, high resolution video, audio and peripheral data to the destination.

A StudioPRO 2SL system requires three fibers for the standard configuration. The forward channels are dedicated to transmitting video, audio and peripheral data from the source to the destination. The return channel is dedicated to transmitting DDC/EDID and peripheral data from the destination to the source. All Thinklogical StudioPRO systems are configurable with multi-mode or single mode fiber.

The StudioPRO 2SL extension systems are designed to support **two single-link DVI displays and USB 2.0**. Systems are custom configurable to also support LC, SC or ST connector types.-

StudioPRO extenders provide a more cost effective KVM solution for users who have no serial, stereo emitter, analog stereo, USB HID or PS/2 requirements. For these features, and additional functionality, including 10/100 Network, FireWire 800 and Professional (Digital) Audio, see Thinklogical's VelocityKVM Extension Systems.

### PRODUCT FEATURES

Standard



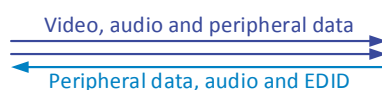
Configurable



Source



MRTS Technology provides full bandwidth connectivity over a fiber connection of up to 80km



Destination





## StudioPRO 2SL · Dual Head Single-Link DVI Displays

### Specifications

Video Resolution	DVI-D, all single-link DVI resolutions (maximum 165MHz pixel clock)
Optical Cable	Three (3) multi-mode or single mode fiber optic cables, for fewer fibers contact Thinklogical (fiber not supplied, available for purchase)
Optical Distance	Multi-Mode up to 1000m 65m: OM1 (62.5/125); 350m: OM2 (50/125); 750m: OM3 (50/125 SX+); 1000m: OM4 (50/125eSX+) Single Mode up to 80km All Distances: OS2 (9/125)
Optical Wavelength	Multi-Mode: 850nm; Single Mode: 1310nm (CWDM and DWDM wavelengths available, contact Thinklogical for further information)
Data Rate	Forward channels: 6.25Gbps; Return Channel: 2Gbps
Environmental	Operating Temperature: 0°C-50°C; Humidity: 5-95% RH, non-condensing
Compliance	Approvals for United States of America, Canada, and European Union
Warranty	One year · Extended warranties available for purchase
Mounting Brackets	Surface Mounting Brackets Included
Power Consumption	15 Watts
Supply Voltage	+5V DC, 4A, AC/DC Adapter Universal Input 100-240VAC, 50/60Hz
Weight	1.50lbs (0.68kg)

### Dimensions

Rack Size	EIA 19"; To rack mount use (2) ENC-000205-R (not included)
Height x Width x Depth	1.72" (43.74mm) x 9.04" (229.62mm) with mounting brackets x 7.39" (187.58mm)
Tolerance	± 0.039" (1.00mm)

### Connectors

Video	DVI-D (2)
USB 2.0	TX: USB B (1); RX: USB A (4)
Fiber Connectors	LC, SC or ST (2)

### Cables Included

Transmitter	(1) 5 Volt, 4 Amp Wall Mount (PWR-000022-R) (2) DVI-D Single-Link Male to Male, 2 Meters (CBL000009-002MR) (1) USB A-B, 1.8 Meters (CBL000015-006FR)
Receiver	(1) 5 Volt, 4 Amp Wall Mount (PWR-000022-R)

### Ordering Information



**M** Multi-Mode  
**S** Single Mode

**LC** LC Fiber Connectors  
**SC** SC Fiber Connectors  
**ST** ST Fiber Connectors

**TX** Transmitter  
**RX** Receiver  
**RC** Receiver with Color Correction

### Common Configurations

VEL-SP2MSL-LCTX	Studio PRO SL Transmitter, Dual Head, Single-Link DVI, USB 2.0, Multi-Mode, LC
VEL-SP2MSL-LCRX	Studio PRO SL Receiver, Dual Head, Single-Link DVI, USB 2.0, Multi-Mode, LC
VEL-SP2SSL-LCTX	Studio PRO SL Transmitter, Dual Head, Single-Link DVI, USB 2.0, Single Mode, LC
VEL-SP2SSL-LCRX	Studio PRO SL Receiver, Dual Head, Single-Link DVI, USB 2.0, Single Mode, LC
VEL-SP2MSL-SCTX	Studio PRO SL Transmitter, Dual Head, Single-Link DVI, USB 2.0, Multi-Mode, SC
VEL-SP2MSL-SCRX	Studio PRO SL Receiver, Dual Head, Single-Link DVI, USB 2.0, Multi-Mode, SC

For additional customization, Thinklogical utilizes a single **Optics Package (VOP)** per extender, available in Multi-Mode or Single Mode, allowing extension of up to 1000m, 10km, 40km or 80km.

For example, when ordering a standard StudioPRO 2SL with LC fiber connectors, select from the following VOP's:

**VOP-M30** for Multi-Mode Extension up to 1000m  
**VOP-S06** for Single Mode Extension up to 10km  
**VOP-S89** for Single Mode Extension up to 40km

## StudioPRO 6SL Three Dual Head Single-Link DVI Displays



Transmitter  
Front and Backpanel



### The System

StudioPRO systems have a simple transmit and receive design. The StudioPRO Transmitter connects to the source to receive video, audio and peripheral data. The data is multiplexed with Thinklogical's patented MRTS Technology, and transmitted over 6.25Gbps SFP+ technology for up to 80 kilometers. Fiber provides a secure connection from the transmitter to the receiver, where MRTS Technology demultiplexes the data stream to deliver uncompressed, high resolution video, audio and peripheral data to the destination.

A StudioPRO 6SL system requires nine fibers for the standard configuration. The forward channels are dedicated to transmitting video, audio and peripheral data from the sources to the destinations. The return channels are dedicated to transmitting DDC/EDID and peripheral data from the destinations to the sources. All Thinklogical StudioPRO systems are configurable with multi-mode or single mode fiber.

The StudioPRO 6SL extension systems are designed to support **three dual head single-link DVI displays and three USB 2.0 signals**. Systems are custom configurable to also support LC, SC or ST connector types.

StudioPRO extenders provide a more cost effective KVM solution for users who have no serial, stereo emitter, analog stereo, USB HID or PS/2 requirements. For these features, and additional functionality, including 10/100 Network, FireWire 800 and Professional (Digital) Audio, see Thinklogical's VelocityKVM Extension Systems.

### PRODUCT FEATURES

Standard



6 Heads



Single-Link DVI

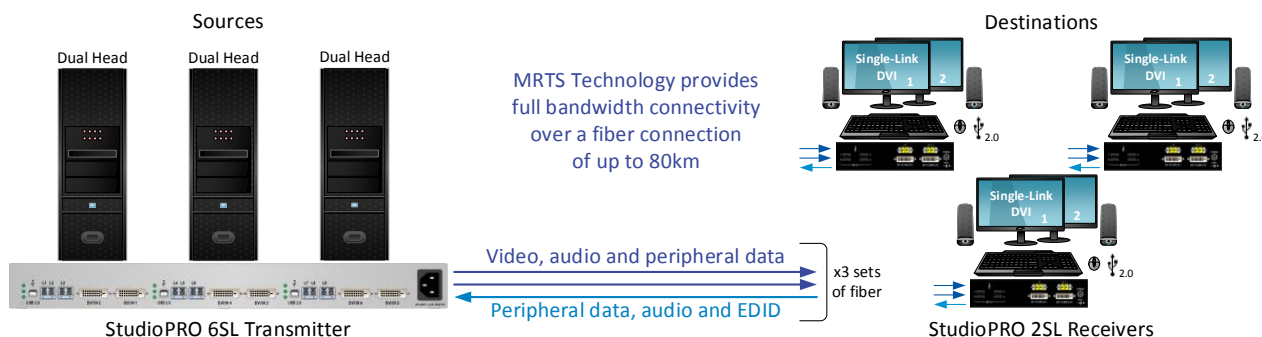


USB 2.0

Configurable



Fiber Connectors



## Specifications

Video Resolution	DVI-D, all single-link DVI resolutions (maximum 165MHz pixel clock)	
Optical Cable	Nine (9) multi-mode or single mode fiber optic cables, for fewer fibers contact Thinklogical (fiber not supplied, available for purchase)	
Optical Distance	Multi-Mode up to 1000m Single Mode up to 80km	65m: OM1 (62.5/125); 350m: OM2 (50/125); 750m: OM3 (50/125 SX+); 1000m: OM4 (50/125eSX+) All Distances: OS2 (9/125)
Optical Wavelength	Multi-Mode: 850nm; Single Mode: 1310nm (CWDM and DWDM wavelengths available, contact Thinklogical for further information)	
Data Rate	Forward channels: 6.25Gbps; Return Channels: 2Gbps	
Environmental	Operating Temperature: 0°C-50°C; Humidity: 5-95% RH, non-condensing	
Compliance	Approvals for United States of America, Canada, and European Union	
Warranty	One year · Extended warranties available for purchase	
Mounting Brackets	19” Rack Mounting Brackets Included	
Power Consumption	35 Watts	
Supply Voltage	Universal AC Power Supply, 100-240VAC, 47-63Hz	
Weight	7.00lbs (3.18kg)	

Rack Size	EIA 19"
Height x Width x Depth	1RU: 1.72" (43.69mm) x 17.47" (443.64mm) x 11.49" (291.95mm)
Tolerance	± 0.039" (1.00mm)

Video	DVI-D (6)
USB 2.0	USB B (3)
Fiber Connectors	LC (6)

Transmitter	(1) AC Power Cable (6) DVI-D Single-Link Male to Male, 2 Meters (CBL000009-002MR) (3) USB A-B, 1.8 Meters (CBL000015-006FR)
Receiver	(1) AC Power Cable

## Ordering Information

**V E L - S P 6    S L - L C T X**

## LC LC Fiber Connectors

TX Transmitter

## Common Configurations

<b>VEL-SP6MSL-LCTX</b>	Studio PRO SL Transmitter, Dual Head, Single-Link DVI, USB 2.0, Multi-Mode, LC
<b>VEL-SP6MSL-LCRX</b>	Studio PRO SL Receiver, Dual Head, Single-Link DVI, USB 2.0, Multi-Mode, LC
<b>VEL-SP6SSL-LCTX</b>	Studio PRO SL Transmitter, Dual Head, Single-Link DVI, USB 2.0, Single Mode, LC
<b>VEL-SP6SSL-LCRX</b>	Studio PRO SL Receiver, Dual Head, Single-Link DVI, USB 2.0, Single Mode, LC

For additional customization, Thinklogical utilizes a single **Optics Package (VOP)** per extender, available in Multi-Mode or Single Mode, allowing extension of up to 1000m, 10km, 40km or 80km.

When ordering a standard StudioPRO 6SL with LC fiber connectors, select from the following VOP's:

**VOP-M57** for Multi-Mode Extension up to 1000m  
**VOP-TBD** for Single Mode Extension up to 10km  
**VOP-TBD** for Single Mode Extension up to 40km