

# Velocitykvm T-Series

## Module 5

Powered by  
MRTS Technology



Velocitykvm T-Series Module 5 (transmitter shown)

### Module 5 One DVI or RGB Display

#### Extension Options Include:

USB 2.0 and USB 1.0 HID  
USB 1.0 HID (ONLY)

#### Fiber Options Include:

Single Mode  
Multi-Mode

## Extend One Single-Link DVI or RGB Source, USB 1.0 and 2.0 up to 40 Kilometers

The Velocity T-Series Module 5 is an interface option, designed for use in the Velocitykvm T-Series 4200 modular chassis (T-4200 sold separately). This module supports one single-link DVI or RGB display, PS2, full duplex stereo audio, stereo emitter, and serial (RS-232). Depending on your requirements, module model options feature either USB 1.0 HID and USB 2.0 or USB 1.0 HID (only). Using multi-mode or single mode fiber, it allows users to locate a DVI monitor and peripherals via fiber from just a few meters up to 40 kilometers (24 miles) away from the controlling computer securely and without the loss of resolution.

Powered by Thinklogical's cutting edge, patent-pending MRTS (Multi Rate Transmission System) technology, the module 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, air traffic control, energy production and exploration, and any other commercial KVM applications.

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## Module Features

Module 5 leverages standard SFP+ transceivers and requires two fibers for multi-mode and single-mode configuration. One fiber is dedicated to the video and USB while the second fiber is the back channel for the USB and DDC. The DDC (Display Data Channel) or EDID (Extended Display Identification Data) information is provided to the CPU by either a generic table stored inside the transmitter, or the displays table via an active link between the receiver and transmitter.

- Designed for use in the Velocitykvm T-4200 chassis (sold separately)
- Supports all single-link DVI video resolutions, or common RGB video resolutions
- Extends one DVI display
- MRTS technology 6.25Gbps allows for full frame rate transmission of uncompressed DVI
- Requires two fiber optic cables
- Flawless image quality with no frame dropping
- Single-mode or multi-mode fiber options extend signals up to:
  - 750 meters using SX+ multi-mode fiber
  - 1000 meters using eSX+ multi-mode fiber
  - 40 kilometers (24 miles) using single-mode fiber
- A dry contact annunciator provides an alarm warning in the event of a power failure or a unit overheating
- Multi-mode and single-mode models are available with LC type fiber connectors
- Flawless image quality with no frame dropping
- Supports USB 1.0 HID and USB 2.0 (model available with USB 1.0 HID only)
- Full keyboard and mouse emulation through the transmitter, full duplex stereo audio, serial RS-232
- DDC2B/EDID compliant
- Stereo emitter for active 3D applications
- Simple plug and play
- Fully compatible with Thinklogical's KVM VX Router line of products



*Velocitykvm T-Series Module 5 -transmitter, multi-mode, USB 2.0 and USB 1.0 HID model*



*Velocitykvm T-Series Module 5 - receiver, multi-mode, USB 2.0 and USB 1.0 HID model*

## The Modular KVM Extension System – Ideal Rack Space Saving Solution

The Velocitykvm T-4200 chassis has a versatile modular design which is equipped with dual, hot-swappable interface modules. This flexible design of the chassis makes it an ideal solution for a variety of applications, serving as a transmitter, receiver, or even a transceiver.

T-4200 chassis module options include:

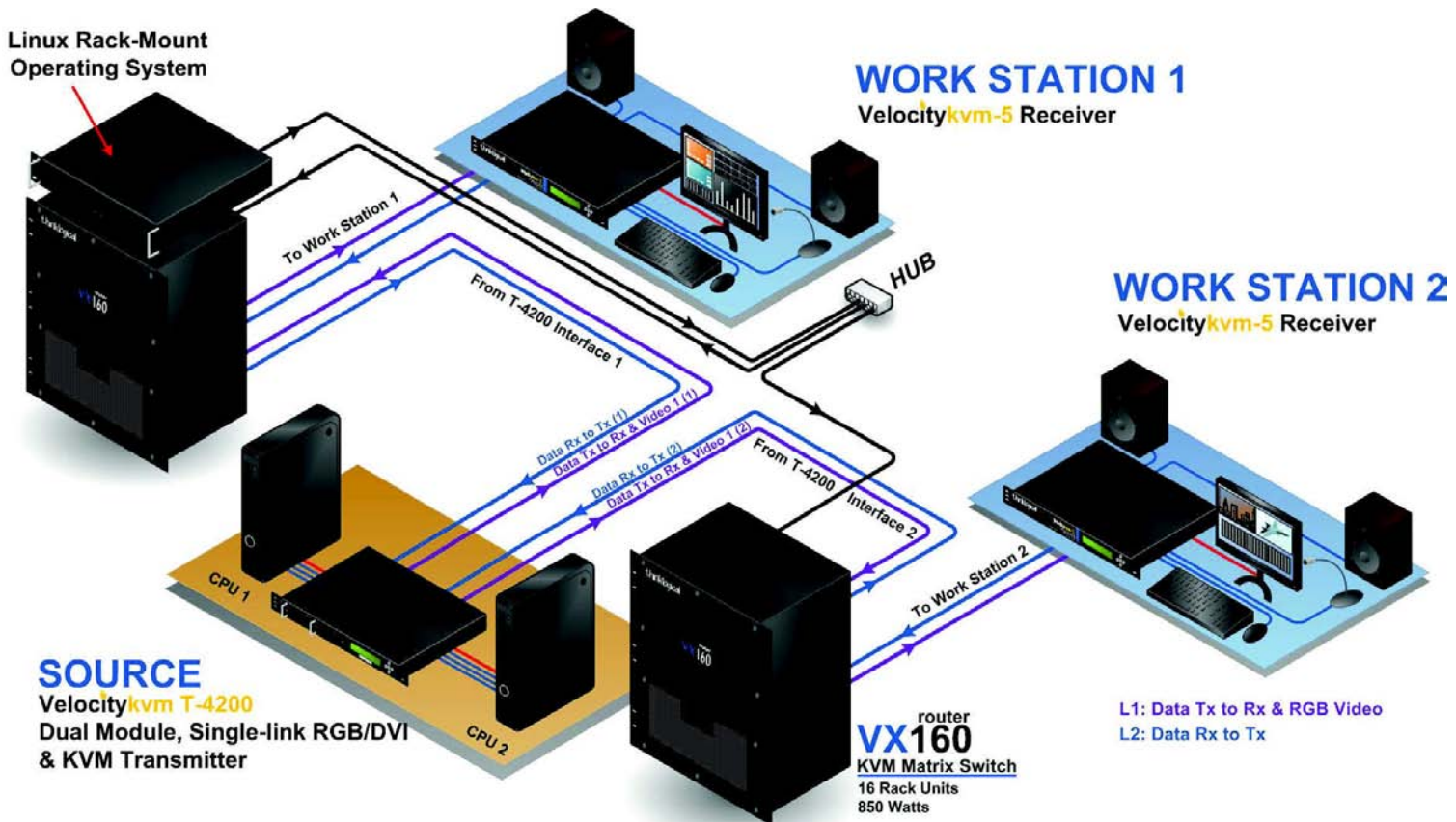
Module 4 – One single-link DVI Display, PS2, full duplex stereo audio, stereo emitter, serial (RS-232), USB 1.0 HID and USB 2.0 or USB 1.0 HID (only)

**Module 5** - One single-link DVI or RGB display, PS2, full duplex stereo audio, stereo emitter, serial (RS-232), USB 1.0 HID and USB 2.0 or USB 1.0 HID (only)

Module 8 - One dual-link DVI or RGB display, PS2, full duplex stereo audio, stereo emitter, serial (RS-232), USB 1.0 HID and USB 2.0 or USB 1.0 HID (only)

Module 24 - Two single-link DVI displays, PS2, full duplex stereo audio, stereo emitter, and serial (RS-232) , USB 1.0 HID and USB 2.0 or USB 1.0 HID (only)

## Velocitykvm T-4200 Chassis Equipped with Two Module 5 Interfaces - System Application Example



**Application Description:** Two functional source computers connected to one Velocitykvm T-4200 transmitter chassis equipped with dual module 5 interface components, which extends video and peripheral signals to two separate Velocitykvm-5 (stand alone) receiver destinations at separate workstation locations. Signals are routed through two Thinklogical VX160 routers.

## Specifications

<b>Video Resolution</b>	DVI-D All Single-Link DVI and common RGB resolutions
<b>Operating Temp.</b>	0°-50°C; (32°-122°F)
<b>Humidity</b>	5-95% RH, non-condensing
<b>Dimensions</b>	Height: 1.592" (4 cm) Depth: 7" (17.8 cm) Width: 7.406" (18.8 cm) (Tolerance: ± .039"; .100cm)
<b>Weights</b>	Weight: 1.5 lbs (0.68 kg) per unit Shipping Weight: 9 lbs (4.08 kg)
<b>Power Consumption</b>	16 watts per plug-in module
<b>Optical Cable</b>	Single-mode and multi-mode over two 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 OM4; Up to 40 kilometers using 9/125um, type OS2 (single-mode)
<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 (2)
Audio MIC	3.5mm Jack
Audio LINE	3.5mm Jack
Serial Port	DB9 Female
USB 1.0 (HID)	USB B
USB 2.0	USB B
PS2 Keyboard	MiniDIN 6 Female
PS2 Mouse	MiniDIN 6 Female
Software Updates	USB B (2)
Fiber Connectors	LC for Single-Mode and Multi-Mode

### Receiver

Video	DVI-D (2)
Audio MIC	3.5mm Jack
Audio LINE	3.5mm Jack
Serial Port	DB9 Male
USB 1.0 (HID)	USB A (4)
USB 2.0	USB A (4)
PS2 Keyboard	MiniDIN 6 Female
PS2 Mouse	MiniDIN 6 Female
Software Updates	USB B (2)
Fiber Connectors	LC for Single-Mode and Multi-Mode

**Cables Included:** DVI-D single-link male to male, 6.5 feet  
HD15M to DVI-A male to male, 6.5 feet

**Cables Included:** USB A to USB B cable, 6 feet

Audio Kit:

- 6 pin MiniDIN male to male, 6 feet (2)
- USB A-B cable, 6 feet (2)
- 3.5mm male to 3.5mm male to 3.5mm male plug, 6 feet (2)
- DB9 male to DB9 Female cable, 6 feet (1)
- BNC male to BNC male cable, 50Ω, 6 feet (1)

## Velocitykvm T-Series Module 5 Ordering Information

### VELOCITY 5 Module Part Number and Description

VTM-U00005-LCRX	Velocity KVM T-Series Extender Receiver, Single Head Single Link DVI, RGB, USB 2.0, KMAS, LC
VTM-U00005-LCTX	Velocity KVM T-Series Extender Transmitter, Single Head Single Link DVI, RGB, USB 2.0, KMAS, LC
VTM-H00005-LCRX	Velocity KVM T-Series Extender Receiver, Single Head Single Link DVI, RGB, USB 1.0 (HID ONLY), KMAS, LC
VTM-H00005-LCTX	Velocity KVM T-Series Extender Transmitter, Single Head Single Link DVI, RGB, USB 1.0 (HID ONLY), KMAS, LC

### SINGLE-MODE OPTICS OPTION

VOP-S04 Velocity 4/5 T-Series Optics Option for Transmitter or Receiver, Single-Mode, Two Fibers, 40KM, LC

### MULTI-MODE OPTICS OPTION

VOP-M19 Velocity 4/5 T-Series Optics Option for Transmitter or Receiver, Multi-Mode, Two Fibers, 1000M, LC

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