

VXVIDEO

320 router

6.25 Gbps Router and Non-Blocking Matrix Switch



- 320 x 320 Non-Blocking Fiber Matrix Switching
- Each Video Connection Supports 6.25 Gbps
- Compatible with VelocityKVM and Video Extenders from Thinklogical
- Protocol Agnostic Switching - Route a variety of signals - DVI, Dual-Link DVI, SDI, HD-SDI, and Dual-Link HD
- Single-Mode and Multi-Mode Fiber Optic Capability
- Redundant, Hot-Swappable, and Current Sharing Power Supplies Modules
- Hot Swappable, 16 Ports Scalability for In and Out Cards
- Hot Swappable SFP+ Optical Port Connections
- Protocol Agnostic

The Logical Solution - Video Routing

The VX 320 Video is a high performance modular router and non-blocking matrix switch for complete, end-to-end routing of video signals over multi-mode or single-mode fiber optic cable. This highly reliable and resilient router is expandable from 16 x 16 up to 320 x 320, which allows for flexible deployment configurations. In addition, the 320 offers rich integration with Thinklogical's Velocity line of KVM and Video extenders. This high level of integration streamlines resources enabling improved productivity and ultimately lowers costs.

The VX 320 Video is a 6.25 Gbps Router Designed for Mission Critical Applications with the Ability to Route and Switch up to 320 Signals

Designed to improve operational efficiency and maximize resources, the VX 320 offers unrivalled scalability, signal integrity, and control flexibility. The highly robust router design supports advanced, real time applications in environments such as broadcast, post-production, government, medical, military, and corporate. In addition, the unmatched 6.25 Gbps signal capability supports SD-SDI, HD-SDI, SMPTE digital video formats, as well as optical formats and other high data rate signals.

6.25 Gbps

The System – Hot-Swappable and Redundant

The inspired modular approach of the VX 320 Video allows for all critical system components including power supplies, cooling fans and pluggable optics (SFP+) to be hot-swappable, thus minimizing business impact in the unlikely event a component should fail. The hot-swappable I/O boards also provide excellent in-service expansion capabilities in convenient steps of 16, thus allowing the VX 320 Video Router to be reconfigured without interrupting signal processing by powering down the router. In addition, the dual redundant power supplies ensure continuous, uninterrupted power.

The VX 320 Video is controlled via a dedicated external Linux or Windows computer. This allows for customization as well as ease of control and administration with access provided via a network connection (browser), or a serial port for 3rd party controller integration (such as Crestron, AMX or home-spun interfaces). Moreover, the VX 320 Video Router is equipped with industry-standard LC type fiber connectors and offers unprecedented integration with Thinklogical's Velocity Series of fiber optic KVM and video transmitters and receivers.

True 320 x 320 Non-Blocking Fiber Matrix Architecture

The VX Router series provides users with non-blocking switching capability. The obvious advantage to this is greater switching flexibility in one chassis, allowing for multiple input signals to be available at one output. The VX 320 Video router is also configurable with a mix of multimode and single mode versions of I/O cards, which supports both short and long haul applications.

Enhanced diagnostics and alarms

The VX 320 Video provides extensive real-time monitoring and diagnostics of the operating temperature, power supply voltages, I/O fiber links, fans, and other critical functions of the router. Redundant controllers have LED indicators to provide active and fault monitoring, while the system alarms can be configured to trigger an external control system, generate SNMP traps, or generate email notifications.

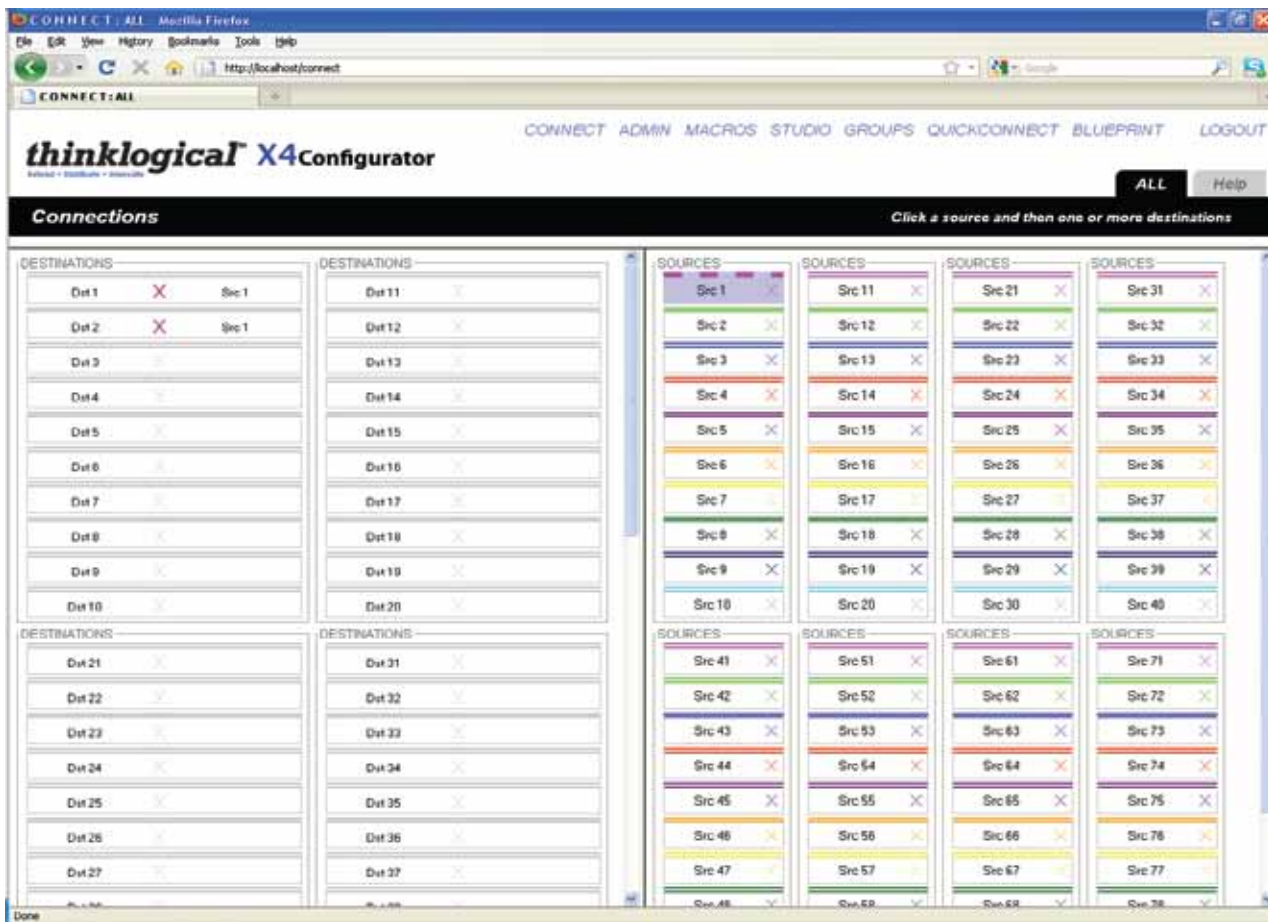


True 320 x 320 Non-Blocking Fiber Matrix Architecture

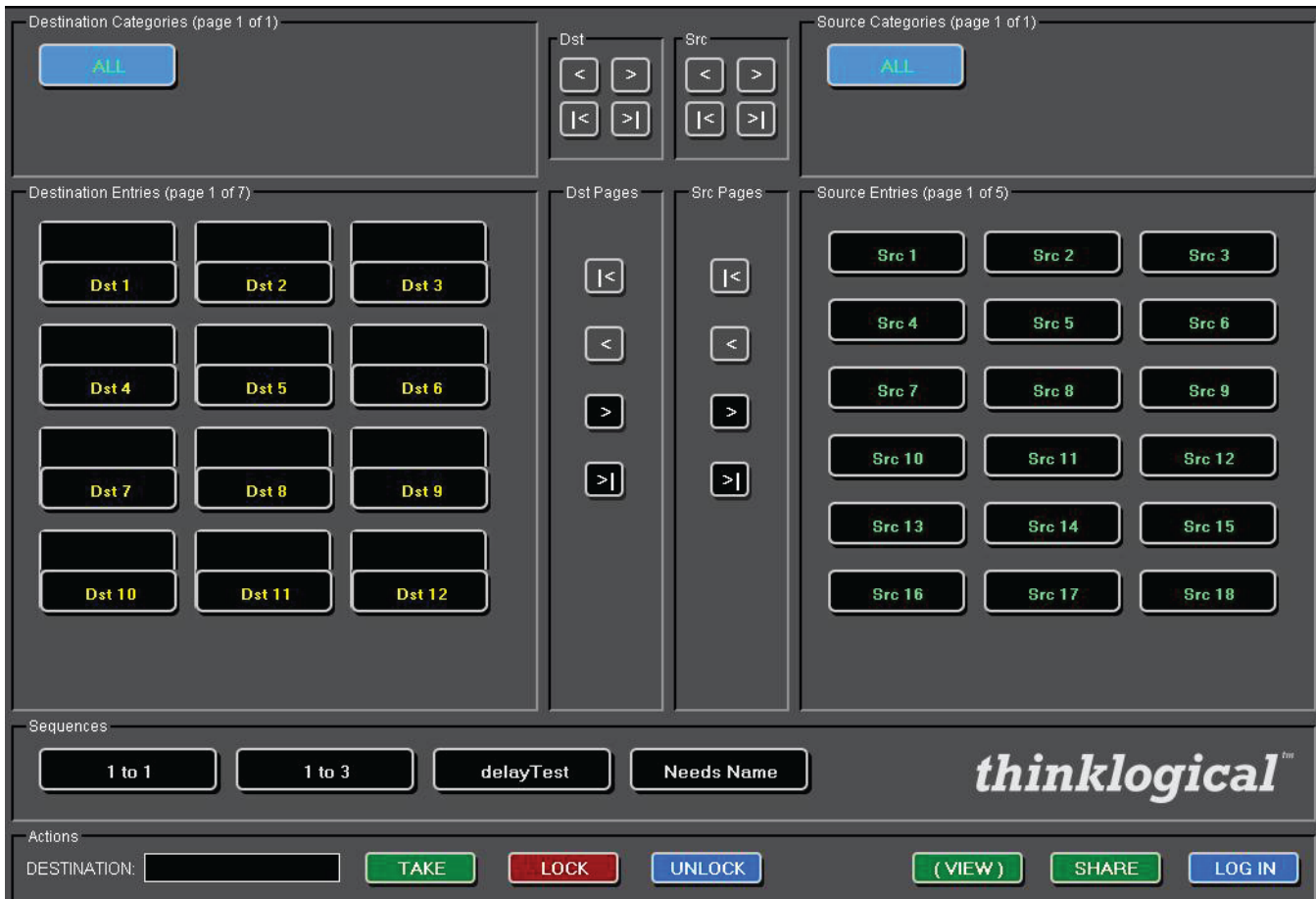
The VX Router series provides users with non-blocking switching capability. The obvious advantage to this is greater switching flexibility in one chassis, allowing for multiple input signals to be available at one output or broadcast to any number of outputs. The VX 320 Video is also configurable with a mix of multi-mode and single mode SFP's, which supports both short and long haul applications.

Provides Comprehensive Control Features using Thinklogical's X4 Configurator

The VX 320 Video is engineered with a range of innovative Thinklogical control features designed to simplify operation in mission critical visualization environments. Thinklogical's X4 configurator is an advanced GUI which provides convenient user interface to the router from remote locations.



Standard GUI Option

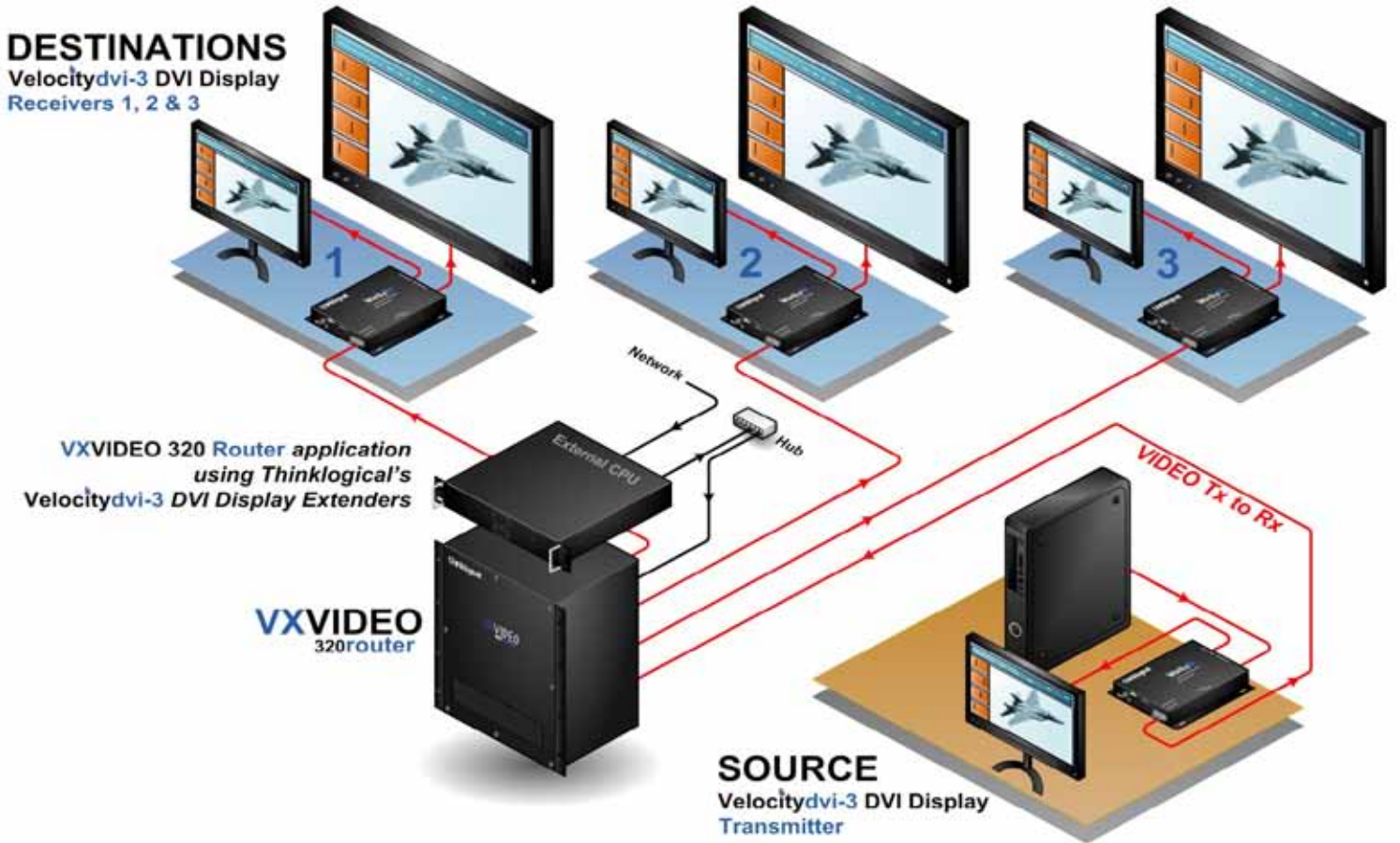


Studio GUI Option

The X4 Configurator allows for easy and intuitive setup and control of the switching between source computer or video entities and user display destinations such as desktops, theaters, conference rooms, editing suites, control consoles, video walls, biomedical imaging arenas, satellite mapping, etc. In addition, single video sources may be multi-cast (one to more than one) or broadcast (one to all) to desired destinations.

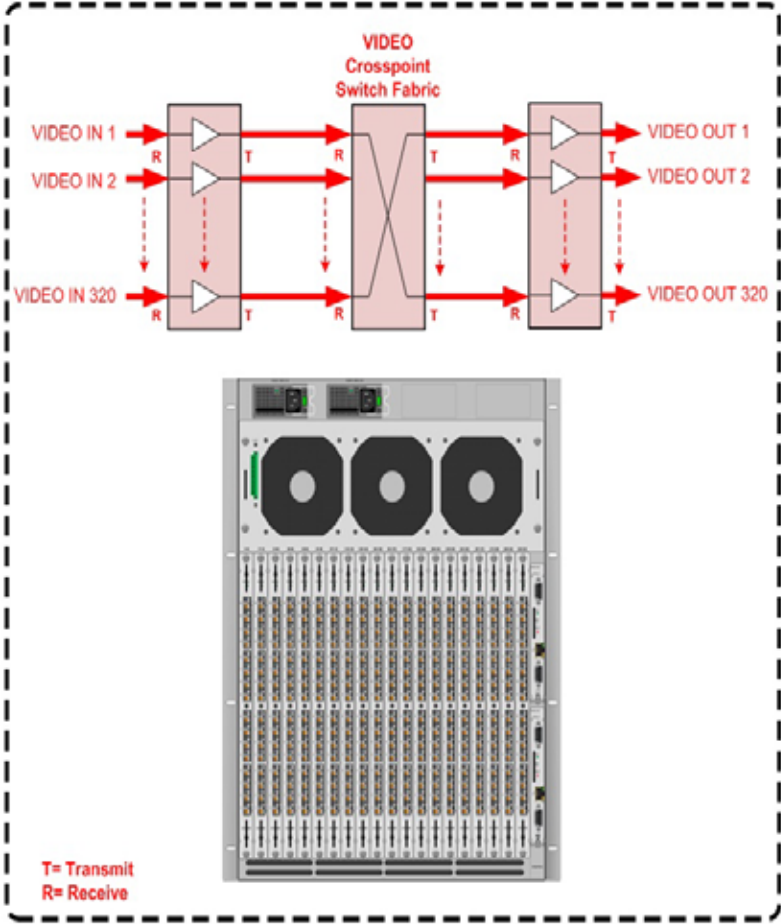
Macro presets may be created for saving and recalling commonly used input and output ties. A dedicated preview output option provides a view of all available input signals before switching to a live output. This eliminates the possibility of these signals being inadvertently routed to a live program during a presentation and allows for program outputs to remain available for signal distribution.

VX 320 Video Router System Application Example



System Design: VX 320 Video Router, DVI Video Extension provided by VelocityDVI 3 (DVI Display)

VXVIDEO 320 Router KVM Matrix Switch Video Routing Configuration



VX 320 Video Router Video Crosspoint Switch Fabric

Key Features

- 320 x 320 Non-Blocking Fiber Matrix
- Single-mode and Multi-mode Capability
- Compatible with Velocity KVM and Video Extenders from Thinklogical
- Each Connection is 6.25 Gbps
- Redundant, Current Sharing Power Supply Modules, Hot Swappable
- 16 Ports Scalability for In and Out Cards, Hot Swappable
- Redundant Controller Card (optional)
- Single Fan Tray with Enunciator Port (for alarms) Hot Swappable
- Controllable via LAN or Serial Connection
- SNMP Control Protocol
- Control/Administration GUI Included
- Multicasting and Macros Supported

Technical Specifications

Humidity	5-95% RH, non-condensing	Ports	16 x 16 minimum configuration – Up to 320 x 320
Operating Temperature	0-50° C (32-122° F)	Power Requirements	AC Input: 100-240VAC, 47-63 Hz Universal AC Power Supply
Physical Dimensions	Rack Size: EIA 19" (48.26 cm) Height: 22.75" (13 RU) Width: 17.19" (43.7 cm) Depth: 14.2" (15.32" including card pulls) Unit Weight: 78 lbs. Shipping Weight: 100 lbs.	Power Consumption	Approximately 800 Watts Fully Loaded

Ordering Information - Part Number and Description

VX 320 Video ROUTER

VXR-V00320 Velocity Matrix Router 320 Video Chassis

VELOCITY MATRIX ROUTER 320 Video Spare Parts

VXM-000018 Spare Controller
VXM-000009 Spare Fan Module
VXM-000010 Spare Power Module

VX 320 DATA CARDS

VXM-D00016 Velocity Matrix Router 320 Data Input/Output Card, 16 Ports, SFP+, Multi-Mode
VXM-D00S16 Velocity Matrix Router 320 Data Input/Output Card, 16 Ports, SFP+, Single Mode
VXM-D0X016 Velocity Matrix Router 320 Data Input/Output Card for SDI Xtreme 3G, 16 Ports, SFP+, Multi-Mode
VXM-D0XS16 Velocity Matrix Router 320 Data Input/Output Card for SDI Xtreme 3G, 16 Ports, SFP+, Single Mode
VXM-D00E16 Velocity Matrix Router 320 Vacant Data Input/Output Card, 16 Ports, No SFP+ (Please contact your Thinklogical sales representative for SFP+ Options)

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