

TVC5401

TRENTON 5U RACKMOUNT VIDEO CONTROLLER - 14 CARDS



Trenton TVC5401 Video Controller

Shown with 18-slot backplane and a single processor SBC

FEATURES

- Up to fourteen (14) Matrox Mura™ MPX Series controller boards supported
- Supports up to 56 video outputs and inputs when using 14 Matrox Mura MPX-4/4 Universal Output/Input boards
- Long-life computer platform for a variety of video control room applications
- Scalable video controller solution maximizes display wall application flexibility
- Ideal video solution for process control, command & control, security surveillance and network operations centers
- Enhanced data storage capability with four front access 3.5" drive bays that enable support for four 3.5" HDDs or up to eight hot swap, 2.5" HDDs
- Redundant & automatic fail-over power supply
- Made in U.S.A for longevity and dependability

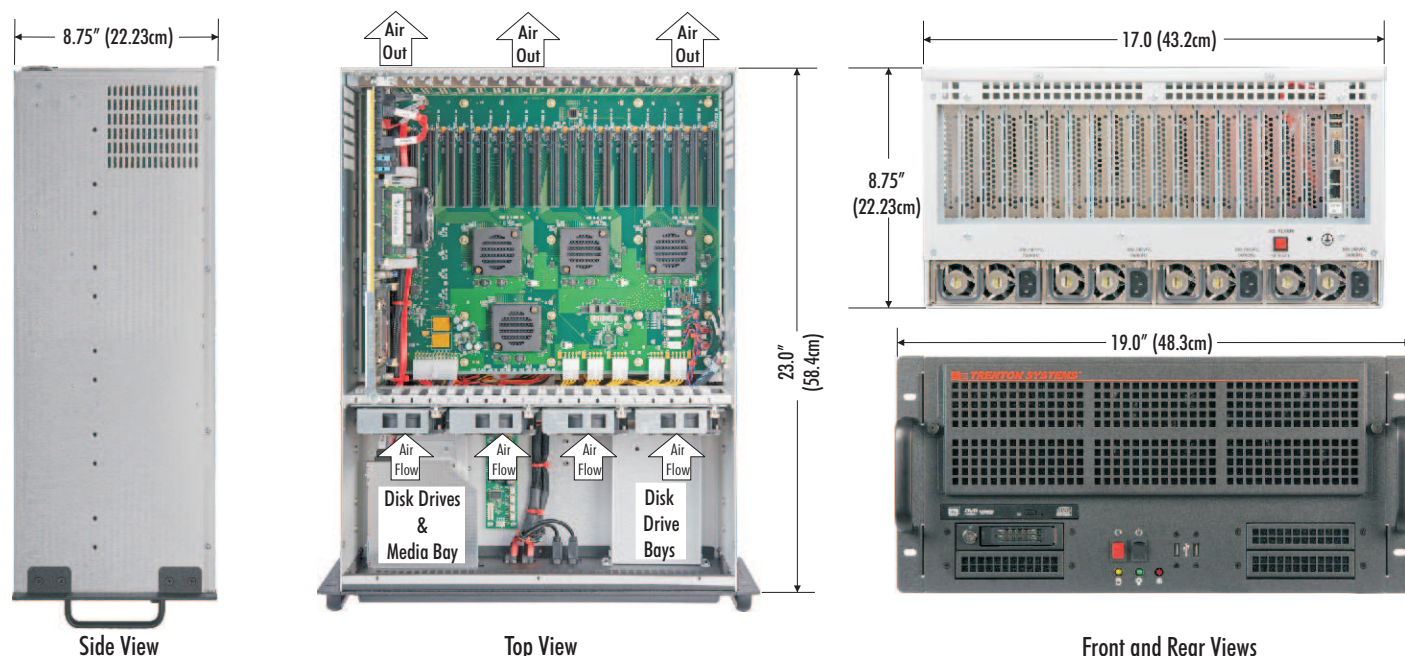


TVC5401 OVERVIEW:

The Trenton TVC5401 is a UL recognized 5U rackmount system solution that supports fourteen Matrox Mura MPX Series boards for use in high-end video capture and display applications. The TVC5401 merges the added processing capability of Trenton's JXTS6966 with the BPG8032M PCI Express 2.0 backplane to deliver x16 PCI Express Gen 2.0 interfaces to each Matrox Mura™ MPX Series video controller board. This x16 PCIe 2.0 link capability ensure maximum video capture and display wall data throughput. The stability of the TVC5401 video controller delivers video display wall flexibility and scalability in military command & control, surveillance, process control, network operation centers and large arena video display/scoreboard installations.

The TVC5401 features four front access drive bays that support either four fixed 3.5" or up to eight 2.5" removable and hot swap storage drives. The system's front panel also includes a Slim-line optical media bay, two USB ports, diagnostic LEDs, power and system reset switches. The TVC5401 rackmount chassis features high-capacity system fans and an N+1 power supply to ensure continuous video controller operation in the event of a power supply failure.

TVC5401 CHASSIS LAYOUT DRAWING - TRENTON JXTS6966 SBC and 20-SLOT BACKPLANE CONFIGURATION¹:



TRENTON VIDEO CONTROLLER: TVC5401

SYSTEM MODEL	DESCRIPTION
TVC5401	UL recognized 5U rackmount computer with four front access 3.5" drive bays, one optical media bay, a Trenton JXTS6966 single board computer and BPG8032M backplane support fourteen Matrox Mura MPX series cards

TECHNICAL SPECIFICATIONS:

MODEL NAME	TVC5401
DESCRIPTION	5U, rackmount computer chassis with a 23" depth, four front access drive bays, UP SBC & backplane configuration with up to 14 Matrox Mura MPX cards
AGENCY APPROVALS & COMPLIANCE	UL recognized product listed in file #E208896-A2-UL dated 2013-02-28. Full UL test report available upon request.
CHASSIS STANDARD	EIA RS-310C 19" Rackmount Standard
CONSTRUCTION & COLOR	Lightweight, rugged aluminum — Black front
VERSION	19" Rackmount with single-processor SBC and backplane configuration supporting up to 14 Matrox Mura™ MPX cards plus general purpose cards
MATROX MURA MPX SERIES OPTIONS	Universal Output/Input Boards: Mura MPX-4/4, Mura MPX-4/2, Mura-4/0
SINGLE BOARD COMPUTER	Trenton JXTS6966 with one Intel® Xeon® C5500 Series processor (Jasper Forest) & multiple I/O and network interfaces
SYSTEM MEMORY INSTALLED	4GB (installed)
PCI EXPRESS 2.0 BACKPLANE	Trenton BPG8032M, 17 - x16 PCI Express 2.0/1.1 electrical/x16 mech. connectors and 1 - x4 PCI Express 2.0/1.1 electrical/x16 mech. connector ²
DRIVE BAYS	4 - 3.5" drive bays support up to eight 2.5" HDD carriers, removable and hot swap are available upon request. 1 - Slim-line device bay for optical drive media. Other drive bay configurations are available upon request.
POWER SUPPLY	1485W, N + 1 power supply
COOLING	4 - 92mm Fans (center-mounted), 102 CFM each
INDICATORS	LEDs for HDD activity and Power Status
SWITCH	Power On/Off and System Reset
HOLD DOWN BAR	Flexible hold down bar for the option cards for added security in high vibration environments
AIR FILTER	Front tool-less access to the system filter for easy cleaning and maintenance
CHASSIS NET WEIGHT	34.8 Lbs. (15.8 kg.) - Includes chassis, single board computer, backplane and N + 1 power supply only
METRIC DIMENSIONS	48.26cm (W) x 22.23cm (H) x 58.42cm (D) (with 19" rackmount handles installed)
ENGLISH DIMENSIONS	19.0" (W) x 8.75" (H) x 23.0" (D) (with 19" rackmount handles installed)

NOTES:

1. The chassis photos shown on page one are for illustrative purposes only.
2. BPG8032M PCI Express mechanical and electrical interface configuration.

Trenton Systems offers complete system integration of a wide variety of standard and customer supplied operating systems and application software packages. Various Microsoft®, Linux and RTOS operating systems can be loaded on to your system by our highly skilled factory technicians. Other system integration services include loading and testing of industry standard or COTS option cards as well as custom designed boards.

Final system weight and total power consumption are a function of the specific system configuration.

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