TVC2404

TRENTON 2U VIDEO WALL CONTROLLER - 18.0" DEPTH

Trenton TVC2404 Video Controller
Shown with a single processor SBC and backplane

FEATURES

- Matrox validated* scalable solution maximizes display wall flexibility
- Ideal video wall controller platform for process control, command & control applications, and security surveillance and network operations centers
- Validated for up to three Matrox Mura™ MPX Series controller boards to deliver up to twelve 1080p high-definition inputs across twelve HD outputs
- Low-profile rackmount enclosure saves rack component mounting space
- Long-life system host board and backplane architecture delivers scalable video controller performance and system configuration stability
- Controller design supports two front access/hot swap data storage drives
- Made in U.S.A. for longevity and dependability

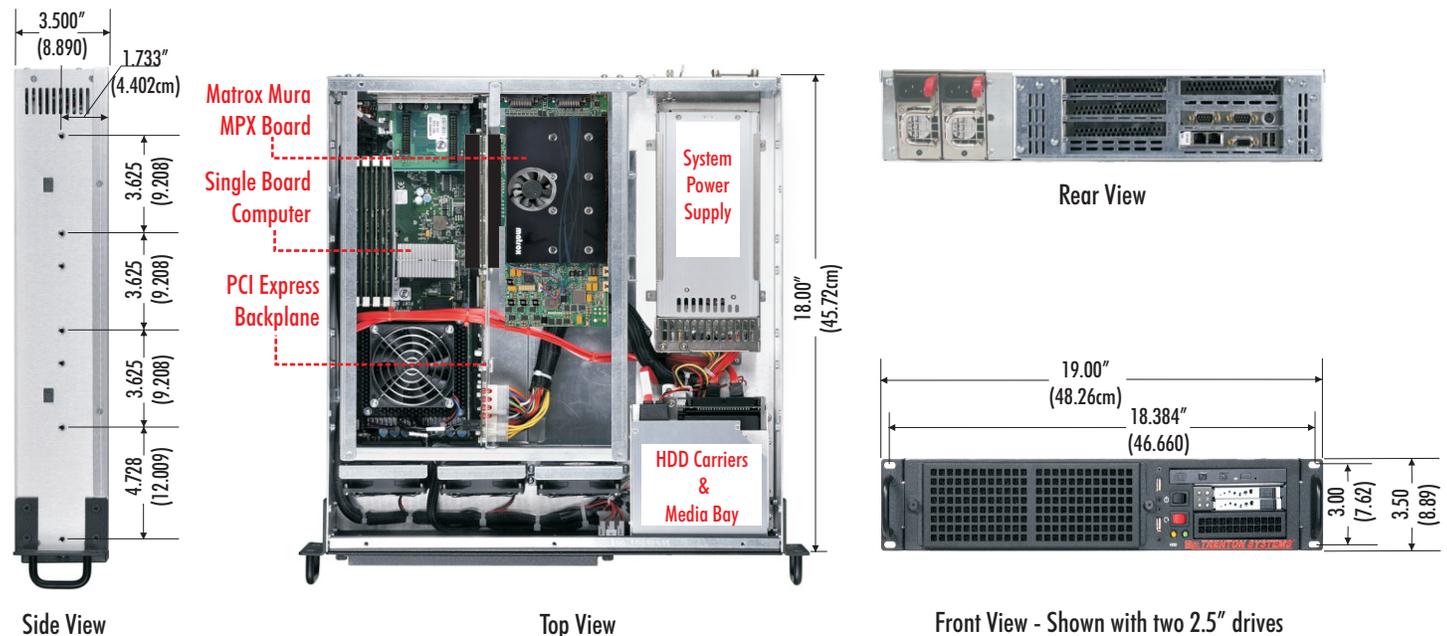**TRENTON SYSTEMS®**
Engineered For Reliability

TVC2404 OVERVIEW:

The Trenton TVC2404 is a 2U rackmount video display wall controller available for use with your choice of the Trenton single-processor TSB7053, JXTS6966 or a dual-processor JXT6966, BXT7059 system host board with a BPC8219 PCI Express backplane. The TVC2404 features a low-profile enclosure design that allows display wall controller mounting in space-constrained locations. This 2U rackmount video display wall controller provides a great combination of space savings, and multiple PCI Express card slot interfaces for supporting up to three Matrox Mura MPX Series controller boards. The TVC2404 delivers superior system performance in a stable video controller platform built to last in demanding video display wall applications such as military command & control, surveillance, industrial process control, network operation centers and digital signage applications.

The TVC2404 features a front access drive bay that supports up to two 2.5" removable and hot swap SDD or HDD SATA/600 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 TVC2404 rackmount chassis features high-capacity, speed-controlled system fans and rear-mounted redundant power supplies to maximize system reliability in high-end visual computing applications.

TVC2404 SYSTEM LAYOUT - MATROX VALIDATED TSB7053 SINGLE-PROCESSOR SYSTEM HOST BOARD & BPC8219 PCI EXPRESS BACKPLANE CONFIGURATION[1]:

Side View

Top View

Rear View

Front View - Shown with two 2.5" drives

TRENTON VIDEO DISPLAY WALL CONTROLLER: TVC2404

SYSTEM MODEL	DESCRIPTION
TVC2404	2U rackmount video display wall controller solution with an 18.0" depth, up to two storage drives, a choice of TSB7053, JXTS6966, JXT6966 or BXT7059 system host board and PCI Express backplane configuration supporting up to three x16 video controller cards like the Matrox Mura MPX boards

TECHNICAL SPECIFICATIONS:

MODEL NAME	TVC2404
DESCRIPTION	2U, 18" deep, rackmount video display wall controller with a single or dual-processor SHB and backplane supporting up to three Matrox Mura MPX cards
CHASSIS TYPE	This space-saving low-profile 2U chassis conforms to the EIA RS-310-D 19"rackmount standard and provides up to two front access storage drives
CONSTRUCTION	Lightweight Rugged Aluminum
MATROX MURA MPX SERIES OPTIONS	Matrox validated* for use with up to three Universal Output/Input Boards: Mura MPX-4/4, Mura MPX-4/2, Mura-4/0
SYSTEM HOST BOARD OPTIONS[2]	Single Processor: Trenton TSB7053* SHB with a choice of a long-life Intel® Xeon® E3-1200 v2 series or an Intel® Core ™ i3/i5/i7 3rd gen. processor Single Processor: Trenton JXTS6966 SHB with a Quad-Core Intel® Xeon® Processor EC5509 or your choice of another EC5500 series processor option Dual Processor: Trenton JXT6966 system host board with a choice of two long-life Intel® Xeon® EC5500 series processors Dual Processor: Trenton BXT7059 system host board with a choice of two long-life Intel® Xeon® E5-2400 v2 series processors
BACKPLANE	BPC8219 2U PICMG® 1.3 butterfly form factor backplane[2] supports three x16 PCI Express mechanical slots driven with x16 PCIe 2.0 electrical interfaces on backplane side B, while side A supports one single or dual-processor SHB and a x16 PCIe slot driven by a x4 PCIe link.
SYSTEM MEMORY CAPACITY	System host board and processor option dependent; the BXT7059 supports up to 48GB of DDR3-1600 memory utilizing the SHB's six Mini-DIMM memory sockets, while the TSB7053 supports up to 32GB of DDR3-1600 memory using four, full-length, standard memory DIMMs
REAR CHASSIS I/O INTERFACES[2]	Typical I/O with Trenton TSB7053, JXTS6966, JXT6966, and BXT7059 SHB: 2 - 10/100/1000Base-T Ethernet, 2 - USB 2.0 and 1 - VGA; IOB33 I/O expansion available with all SHB models supports additional serial port, parallel printer, PS/2 mouse and keyboard interfaces
LOCAL DATA STORAGE	Standard configuration supports 1 - 512GB SATA/600 SSD, optional configurations include 2 - 500GB SATA/600 HDD drives; the chassis design supports a variety of 2.5" SDD or HDD storage capacities; a DVD/RW optical drive is also provided as a standard option
POWER SUPPLY OPTIONS	2U rear-mounted, 90-264VAC redundant power supplies (600W)
INDICATORS, FRONT PORTS and SWITCHES	Front LEDs for HDD activity and power status and rear LEDs for LAN activity, 2 - USB ports, 1- Power On/Off switch and 1- System Reset switch
COOLING and AIR FILTER	3 - 80mm Fans (font-mounted), 67CFM each; fan speed is simultaneously controlled and monitored via tach pulses from the system fans, SHB fan speed commands and/or the controller's thermal sensor; a front access system air filter simplifies filter cleaning and maintenance
CHASSIS MOUNTING	Low-profile 2U chassis (i.e. 3.5"height) mounts inside a standard EIA RS-310-D 19" component rack or cabinet
CHASSIS NET WEIGHT	23.8Lbs. (10.81 Kg) chassis + SHB + backplane + system power supply only
METRIC DIMENSIONS	48.3cm (W) x 8.9cm (H) x 45.7cm (D) (with 19" rackmount handles installed)
ENGLISH DIMENSIONS	19.0" (W) x 3.5" (H) x 18.0" (D) (with 19" rackmount handles installed)

NOTES:

  * Matrox validated configuration includes the TSB7053 SHB with an Intel® Core ™ i7-3770 processor.
  1. The chassis photos on page one are shown for illustrative purposes only.
  2. Rear I/O interfaces vary slightly with system host board models. Additional system host board and
    backplane configuration options are available upon request.

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.

Standard industry certifications and approvals for your specific system configuration are also available from Trenton Systems.

Final system weight, environmental specifications and total power consumption estimates are a function of the specific system configuration. Contact Trenton for a total system weight and power consumption estimate for your specific system configuration.

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