

# TVC4403

## TRENTON 4U RACKMOUNT VIDEO CONTROLLER - 20" DEPTH

### FEATURES

- Matrox validated system for a wide variety video control room applications
- Scalable solution maximizes display wall application flexibility
- Ideal video wall solution for process control, command & control, security surveillance and network operations centers, in addition to corporate boardroom and digital signage applications
- Validated support for up to nine Matrox Mura™ MPX controller boards to deliver up to 36 1080p high-definition inputs across 36 HD outputs
- Complete video controller solution backed with Trenton technical support
- Four front access 3.5" drive bays that enable support for four 3.5" HDDs or up to eight hot swap, 2.5" HDDs plus a Slim-line optical media drive bay
- Lightweight and rugged aluminum chassis
- Made in U.S.A. for longevity and dependability

**matrox**  
Graphics for Professionals



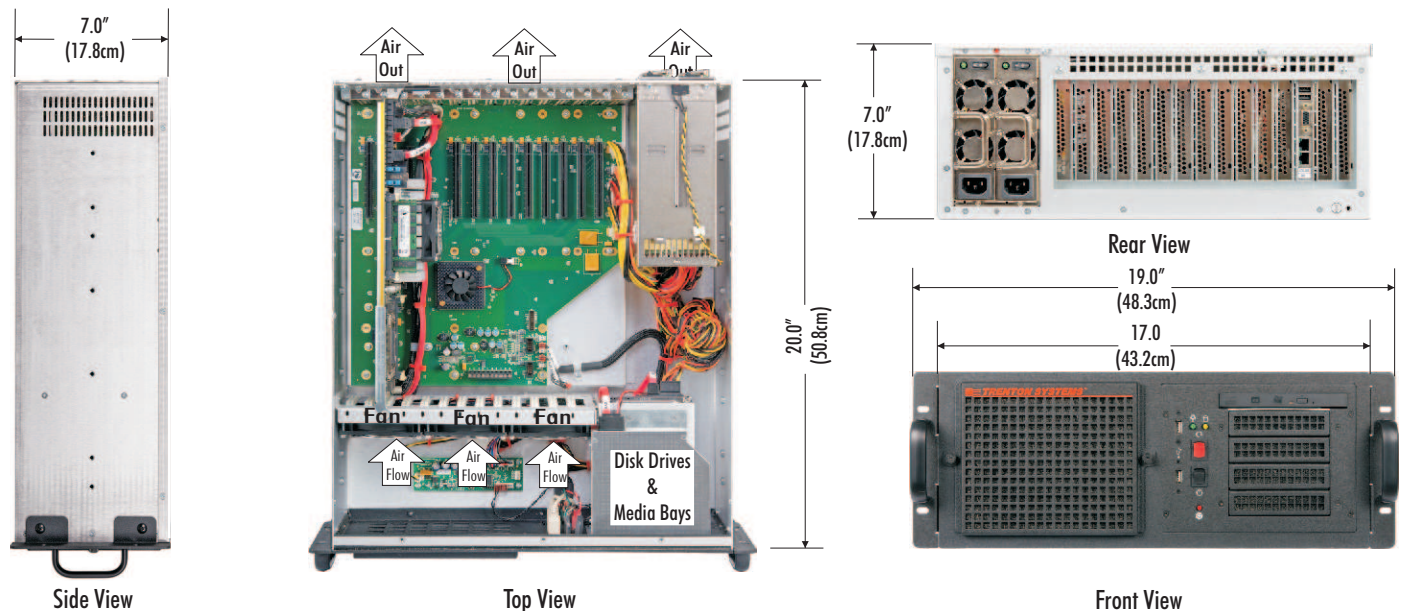
**Trenton TVC4403 Video Controller**  
Shown with a single processor SBC and backplane

### TVC4403 OVERVIEW:

The Trenton TVC4403 is a CE-compliant and UL recognized 4U Matrox validated video controller solution that supports up to nine Matrox Mura MPX Series boards used in high-end capture and display applications. The TVC4403 offers a choice between Trenton's TSB7053 single board computer featuring an Intel® Core™ i7 processor or a Trenton JXTS6966 with a quad-core Intel® Xeon® processor. Both SBC options utilize a Trenton BPG7087 PCI Express backplane with multiple x16 PCIe interfaces and capable of supporting up to nine Matrox Mura™ MPX Series video controller cards to support a wide variety of video display wall sizes and configurations. The TVC4403 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 traffic management systems.

The TVC4403 features four front access drive bays that support either four 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 TVC4403 rackmount chassis features high-capacity system fans and rear-mounted power supply options to maximize system reliability in high-end visual computing applications.

### TVC4403 CHASSIS LAYOUT DRAWING - TRENTON JXTS6966 SBC and BPG7087 BACKPLANE CONFIGURATION<sup>1</sup>:



### TRENTON VIDEO CONTROLLER: TVC4403

SYSTEM MODEL	DESCRIPTION
TVC4403	CE-compliant and UL recognized 4U rackmount computer with four front access 3.5" drive bays, one optical media bay, a Trenton TSB7053 or JXTS6966 single board computer & BPG7087 backplane supporting up to nine Matrox Mura MPX series cards

**TECHNICAL SPECIFICATIONS:**

MODEL NAME	TVC4403
DESCRIPTION	4U, 20" deep rackmount computer chassis with four front access drive bays, UP SBC & backplane validated configuration for up to nine Matrox Mura MPX cards
AGENCY APPROVALS & COMPLIANCE	The TVC4403 is CE and FCC compliant via the ECM Directive 2004/108/EC including EMI/EMC and FCC Part 15 Subpart B. The TVC4403 system is a UL recognized product listed in file #E208896-A3-UL dated 2013-02-28. CE & FCC certificates of compliance documents and the full UL test report are available upon request.
CHASSIS STANDARD	EIA RS-310C 19" Rackmount Standard
CONSTRUCTION & COLOR	Lightweight, rugged aluminum – Black front
VERSION	19" Rackmount with a single-processor SBC and backplane configuration supporting up to nine possible Matrox Mura MPX series video controller cards
MATROX MURA MPX SERIES OPTIONS	Universal Output/Input Boards: Mura MPX-4/4, Mura MPX-4/2, Mura-4/0
SINGLE BOARD COMPUTER OPTIONS	Trenton TSB7053 with a long-life, Intel® Core™ i7-3770 processor (Ivy Bridge) and on-board support for multiple I/O and network interfaces Trenton JXTS6966 with one Intel® Xeon® C5509 Series processor (Jasper Forest) and on-board support for multiple I/O and network interfaces
SYSTEM MEMORY INSTALLED	4GB (installed) – expandable up to 32GB with the TSB7053 single board computer configuration option when using standard 8GB DDR3 DIMMs and up to 24GB with the JXTS6966 SBC option when using 8GB DDR3 Mini-DIMMs
PCI EXPRESS BACKPLANE	Trenton BPG7087 – Four x16 PCI Express 2.0 electrical / x16 mechanical card slots, Six x4 PCIe 2.0 electrical / x16 mechanical card slots <sup>2</sup>
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.
DRIVE CAPACITY INSTALLED	1 - 500GB storage drive, additional drives and larger drive capacities available upon request
POWER SUPPLY	Mini-Redundant ATX/EPS
INDICATORS and SWITCHES	LEDs for HDD activity and Power Status and Power On/Off and System Reset
HOLD DOWN BAR	Flexible hold down bar for the option cards for added security in high vibration environments
COOLING and AIR FILTER	3 - 92mm Fans (center-mounted), 90 CFM each and front tool-less access to the system filter for easy cleaning and maintenance
CHASSIS NET WEIGHT	30 Lbs. (13.62 kg.) - Includes chassis + single board computer & backplane + power supply only
DIMENSIONS	19.0" / 48.3cm (W) x 7.0" / 17.8cm (H) x 20.0" / 50.8cm (D) (with 19" rackmount handles installed)

**NOTES:**

1. The chassis photos shown on page one are for illustrative purposes only.
2. BPG7087 backplane slot PCIe2 is driven with a x1 PCIe 1.1 link via the JXTS6966's optional IOB33 PCIe expansion module.

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, environmental specifications and total power consumption estimates are a function of the specific system configuration.

Copyright ©2013 by TRENTON Systems Inc., All rights reserved

**matrox**<sup>®</sup>  
Graphics for Professionals

Matrox is a registered trademark of Matrox Electronics Inc.  
Microsoft is a registered trademark of Microsoft Corporation. All other product and/or company names are trademarks or registered trademarks of their respective owners.

**TRENTON**  
**SYSTEMS**<sup>™</sup>  
Engineered For Reliability

TRENTON Systems Inc. · 2350 Centennial Drive, Gainesville, Georgia 30504 · Sales: (800) 875-6031 · Phone: (770) 287-3100 · Fax: (770) 287-3150  
E-mail: Sales@TrentonSystems.com · Web: www.TrentonSystems.com

8414403 12023 1.13