TVC4400

TRENTON SHELFMOUNT / WALLMOUNT VIDEO CONTROLLER

TVC4400 Shelfmount / Wallmount Video Controller
Shown with a MicroATX motherboard and with Lower Mounting Brackets for Shelfmount Installations

FEATURES

- Compact video controller solution ideal for process control, command & control, security surveillance and network operations centers
- Very small computer chassis supports four full-height option cards including up to three PCI Express Gen2 video controller boards
- Easy chassis mounting inside an enclosure, on a backwall in a control cabinet or underneath a control console
- Local data storage with up to two hot swap and front access HDDs
- Supports up to three Matrox Mura™ MPX Series controller boards to deliver up to 12 video outputs and inputs*
- Made in U.S.A for longevity and dependability

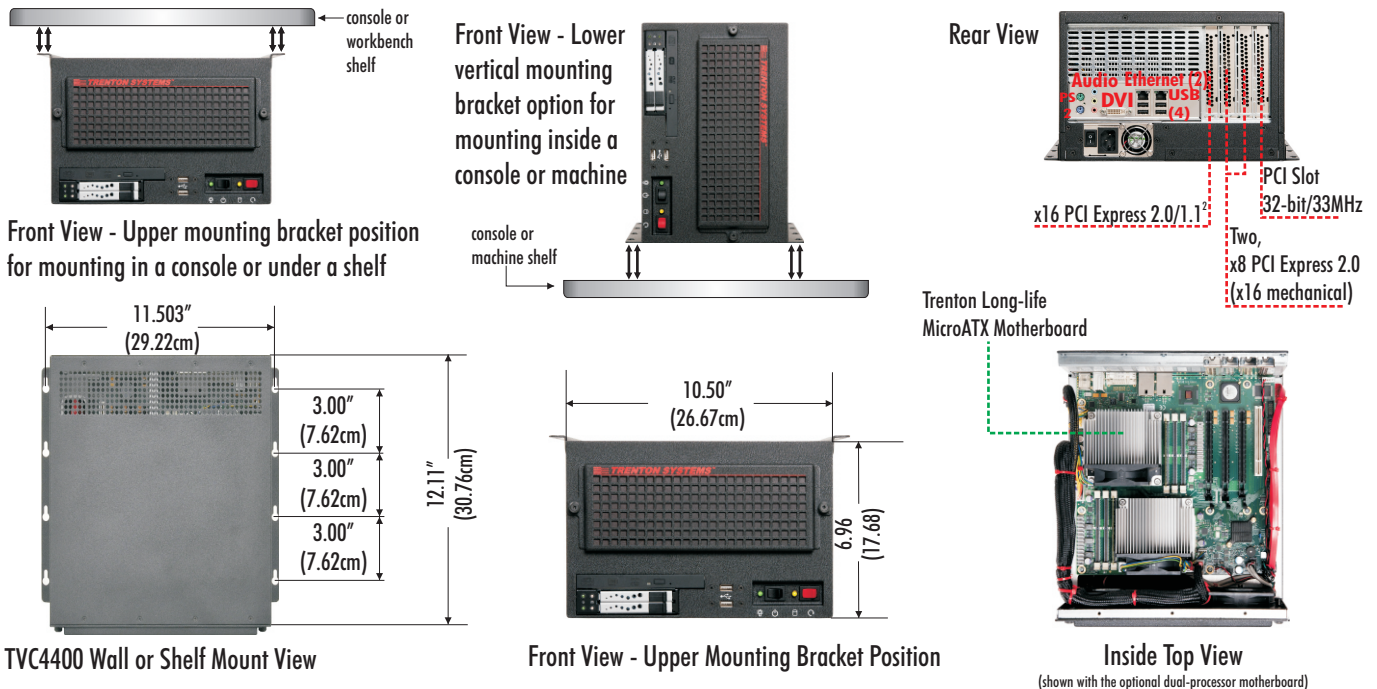**matrox®**
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TVC4400 OVERVIEW:

The standard TVC4400 video controller configuration supports video display walls with up to eight video inputs and outputs. An optional configuration supports display walls with up to 12 video inputs and outputs. The TVC4400 features a flexible enclosure design that eliminates the need for riser cards and allows the controller to be mounted in different orientations and locations. This shelfmount /wallmount video controller provides a unique combination of space savings, PCI Express interfaces for the Matrox Mura MPX controller boards and expanded data storage. The TVC4400 standard configuration features Trenton's long-life, single-processor JXMS7031 motherboard with an optional configuration available using the dual-processor JXM7031 motherboard. TVC4400 application examples include video display wall systems for military command and control, security surveillance, process control, digital signage and event and trade show displays.

The standard TVC4400 configuration with the single-processor motherboard features a quad-core Intel® Xeon® Processor EC5509. This JXMS7031 configuration supports two Mura cards with inter-card transfers. The dual-processor JXM7031 configuration option supports up to three Mura cards without the inter-card transfer capability. Both configurations support additional long-life CPU options to enhance system longevity. The TVC4400 configuration supports either two 2.5" or one 3.5" front access / hot swap HDDs and three or four full-height card slots.

TVC4400 SYSTEM LAYOUT[1]:

← console or workbench shelf

Front View - Upper mounting bracket position for mounting in a console or under a shelf

Front View - Lower vertical mounting bracket option for mounting inside a console or machine

console or machine shelf

Rear View

Audio Ethernet (2)
DVI USB (4)

x16 PCI Express 2.0/1.1[2]

PCI Slot 32-bit/33MHz

Two, x8 PCI Express 2.0 (x16 mechanical)

Trenton Long-life MicroATX Motherboard

11.503" (29.22cm)

3.00" (7.62cm)
3.00" (7.62cm)
3.00" (7.62cm)

12.11" (30.76cm)

TVC4400 Wall or Shelf Mount View

10.50" (26.67cm)

6.96 (17.68)

Front View - Upper Mounting Bracket Position

Inside Top View
(shown with the optional dual-processor motherboard)

TRENTON VIDEO CONTROLLER: TVC4400

SYSTEM MODEL	DESCRIPTION
TVC4400	Shelfmount / Wallmount computer features an extended-life uATX motherboard with one or two quad-core processors and support for up to two or three* Matrox Mura MPX Series video controller boards

Three cards require the JXM7031 dual-processor motherboard option which does not support inter-card transfers

TECHNICAL SPECIFICATIONS:

MODEL NAME	TVC4400
DESCRIPTION	Shelfmount /wallmount video controller, front access drive bays, single-processor MicroATX motherboard and up to two Matrox Mura MPX cards
CHASSIS TYPE	Compact video controller enclosure supports full-height, plug-in cards without a riser card and flexible installation options for shelf or wall mounting
CONSTRUCTION	Lightweight Rugged Aluminum
MATROX MURA MPX SERIES OPTIONS	Universal Output/Input Boards: Mura MPX-4/4, Mura MPX-4/2, Mura-4/0
MicroATX MOTHERBOARD	Standard Configuration - Trenton JXMS7031 - MicroATX motherboard with one long-life Quad-Core Intel® Xeon® C5509 Processor Optional Configuration - Trenton JXM7031 - MicroATX motherboard with two long-life Quad-Core Intel® Xeon® C5509 Processors
MOTHERBOARD BIOS	0ABYIA04
SYSTEM MEMORY INSTALLED	4GB (installed)
REAR CHASSIS MB INTERFACES[3]	2 - 10/100/1000Base-T Ethernet, 4 - USB 2.0, 1 - DVI-I Digital/Analog Video, HD Audio (Line In, Line Out, MIC), PS/2 Mouse, PS/2 Keyboard
DRIVE BAYS	1- Front access HDD bay may be used to support either 1 - 3.5" or 2 - 2.5" hot swap storage drives, 1 - Optical media drive bay Note: 1 - 500GB storage drive (installed) -- Additional drives and larger drive capacities available upon request
POWER SUPPLY	1 - 1U, EPS, 550W, 90-264 VAC full range, other power supply options available upon request
INDICATORS, FRONT PORTS and SWITCHES	LEDs for HDD activity and Power status, 2 - USB 2.0 ports, 1 - Power On/Offn and 1 - System Reset switch
COOLING and AIR FILTER	2 - 80mm Fans (front-mounted) and front access system filter requires no tools for fast and easy filter cleaning and maintenance
CHASSIS MOUNTING	Flexible mounting bracket locations enable horizontal or vertical shelf, wall, console, workstation and OEM machine equipment installations
CHASSIS NET WEIGHT	15.0 Lbs. (6.81 Kg) chassis + JXMS7031 motherboard + 1U EPS power supply only
METRIC DIMENSIONS	26.67cm (W) x 17.68cm (H) x 30.76cm (D)
ENGLISH DIMENSIONS	10.50" (W) x 6.96" (H) x 12.11" (D)

NOTES:
1. *The chassis photos are shown for illustrative purposes only.*
2. *Card slot only available with dual-processor JXM7031 motherboard system configuration option.*
3. *I/O interfaces available with Trenton JXMS7031 motherboard. Additional motherboard options will have slightly different I/O interface connections.*

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. Preliminary estimates and final validated values are provided by Trenton for each rackmount computer system we build.

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