



Trenton TVC4402 Video Controller
Shown with a 14-slot form factor backplane and a single board computer

FEATURES

- Long-life computer platform for a wide variety of video control room applications
- Ideal video solution for process control, command & control, security surveillance and network operations centers
- Up to ten video controller boards and option cards supported when using the BPG7087 backplane option
- Flexible single and dual-processor single board computer options
- Chassis supports a variety of 14-slot backplane options
- 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
- Multiple I/O and network interface ports
- Lightweight and rugged aluminum chassis
- Made in U.S.A for longevity and dependability

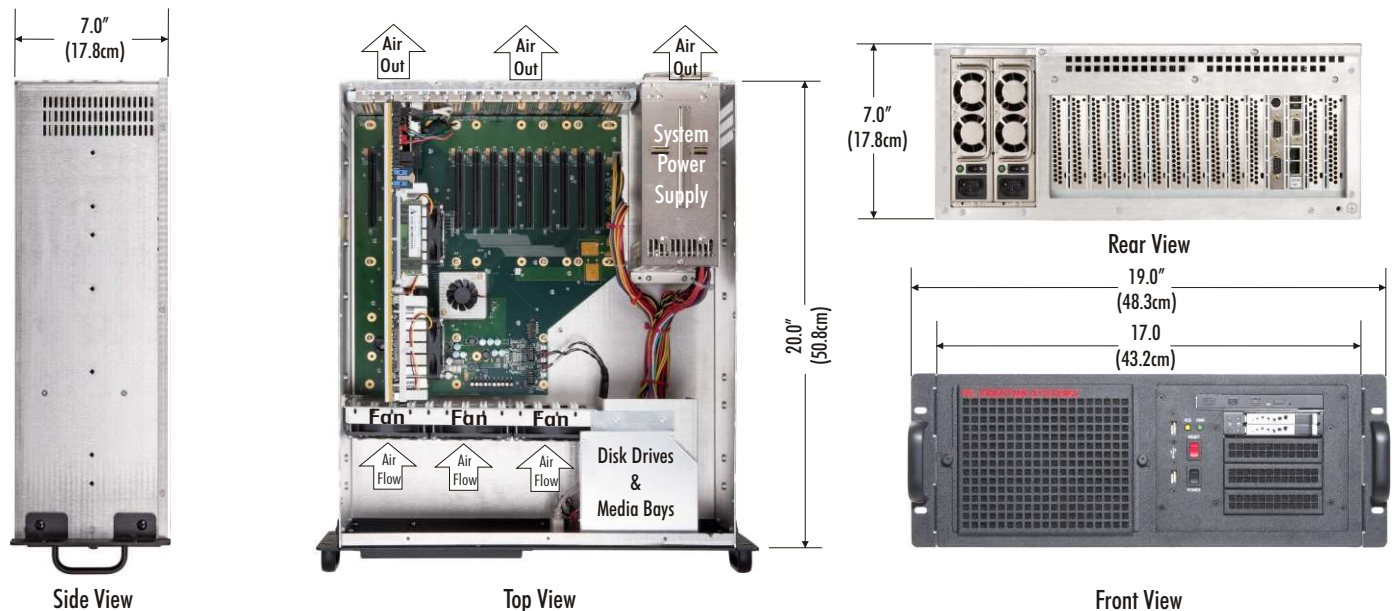


TVC4402 OVERVIEW:

The Trenton TVC4402 is a 4U system solution that supports up to ten advanced video and graphics cards typically used in high-end video processing and graphics applications. The system features several single board computer and backplane options including Trenton's BPG7087 PCI Express 2.0 backplane with multiple x16 PCIe interfaces. The SBC and backplane combinations available in the TVC4402 enable support for up to ten of the latest video controller, I/O and network option cards. Trenton's BPG7087 backplane features four x16 PCIe 2.0 electrical interfaces and six x4 PCIe 2.0 links to support a wide variety of video display wall sizes and configurations. The TVC4402 is a stable video controller platform built to last in demanding video display wall applications such as military command & control, surveillance, industrial process control and network operation centers.

The TVC4402 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 TVC4402 rackmount chassis features high-capacity system fans and rear-mounted power supply options to maximize system reliability in high-end visual computing applications.

TVC4402 CHASSIS LAYOUT DRAWING - TRENTON DUAL-PROCESSOR SBC and BPG7087 BACKPLANE CONFIGURATION¹:



TRENTON VIDEO CONTROLLER: TVC4402

SYSTEM MODEL	DESCRIPTION
TVC4402	4U rackmount computer with four front access 3.5" drive bays, one optical media bay, a choice of DP or UP single board computer and 14-slot form factor backplane options capable of supporting up to ten of the latest video controller cards

TECHNICAL SPECIFICATIONS:

MODEL NAME	TVC4402
DESCRIPTION	4U, rackmount computer chassis with a 20" depth, four front access drive bays, SBC & backplane configurations with up to ten video controller boards
CHASSIS STANDARD	EIA RS-310C 19" Rackmount Standard
CONSTRUCTION & COLOR	Lightweight, rugged aluminum — Black front
VERSION	19" Rackmount with dual or single-processor SBC and 14-slot backplane configuration supporting up to ten video and general purpose cards
UP PICMG 1.3 SBC OPTIONS	Trenton TSB7053, JXTS6966 or TQ9 single-processor, single board computers ²
DP PICMG 1.3 SBC OPTIONS	Trenton JXT6966 dual-processor, single board computer ²
14-SLOT BACKPLANE OPTIONS	Trenton BPG7087, BPC7041, BPC7009, BPG6615, BPX6610 ²
BPG7087 BP CONFIGURATION	Four — x16 PCI Express 2.0 electrical / x16 mechanical card slots, Six— x4 PCIe 2.0 electrical / x16 mechanical card slots ³
PCI EXPRESS EXPANSION CARD	Trenton IOB33 is an optional PCIe expansion module used on the TSB7053 to enable BPG7087 backplane slot PCIe2 and provide additional I/O interfaces
DRIVE BAYS	4 - Front 3.5" drive bays support either four 3.5" or up to eight 2.5" hot swap HDD carriers and 1 - Slim-line device bay for optical drive media
POWER SUPPLY	Options include: Single ATX/EPS P/S up to 1500W, fixed - OR - Mini-redundant ATX P/S up to 500W
COOLING	3 - 120mm Fans (center-mounted), 90 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	25 Lbs. (11.35 kg.) - Includes chassis + single board computer & backplane + mini-redundant power supply only
METRIC DIMENSIONS	48.3cm (W) x 17.8cm (H) x 50.8cm (D) (with 19" rackmount handles installed)
ENGLISH DIMENSIONS	19.0" (W) x 7.0" (H) x 20.0" (D) (with 19" rackmount handles installed)

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.

NOTES:

1. The chassis photos shown on page one are for illustrative purposes only.
2. Additional SBC and backplane options available for use in this chassis.
3. PCIe2 slot functionality requires the use of an IOB33 PCIe expansion module.

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