TVC5400

TRENTON 5U RACKMOUNT VIDEO CONTROLLER - 17 CARDS

Trenton TVC5400 Video Controller
Shown with 20-slot form factor backplane and a single board computer

FEATURES

- Scalable video controller solution maximizes display wall application flexibility
- Ideal video solution for process control, command & control, security surveillance and network operations centers
- Up to seventeen (17) video controller boards and option cards supported when using the BPG8032 backplane option
- Flexible single and dual-processor single board computer options
- Chassis supports a variety of 20-slot backplane options
- Extensive system control, COMM and I/O functionality
- 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

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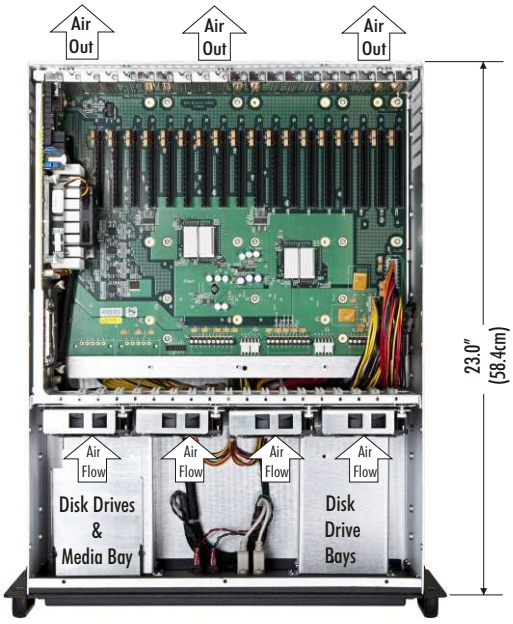
TVC5400 OVERVIEW:

The Trenton TVC5400 is a 5U system solution available with SBC and backplane options to support up to seventeen PCIe x16 advanced video and graphics cards typically used in high-end video processing and graphics applications. The BPG8032 backplane option also enables an additional x4 PCI Express 2.0 card slot for general purpose option card functionality like expanded network communications or additional video input capability. The TVC5400 features dual or single-processor single board computer options such as Trenton's JXT6966, TSB7053 and JXTS6966 paired with 20-slot form factor backplanes like the Trenton BPG8032 PCI Express 2.0 backplane. The TVC5400 is a video controller platform built to deliver video display wall flexibility and scalability in military command & control, surveillance, process control, network operation centers and large arena video display/scoreboard installations.

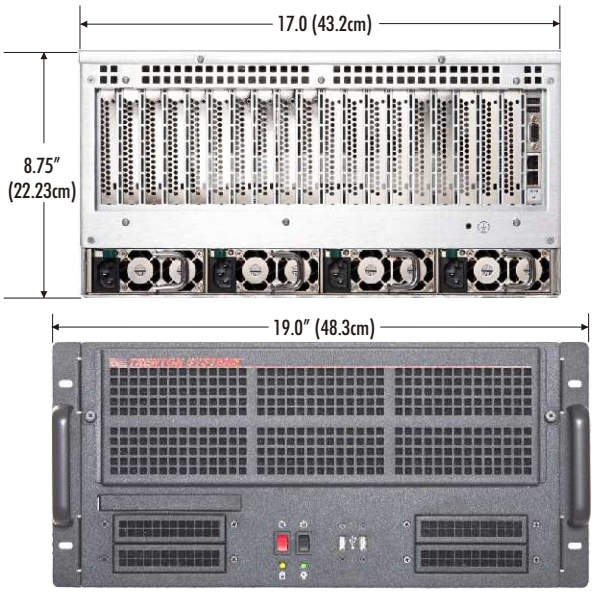
The TVC5400 features four front access drive bays that support either four 3.5" or up to eight 2.5" removable and hot swap storage drives. The system's front panel also includes a Slim-line optical media bay, two USB ports, diagnostic LEDs, power and system reset switches. The TVC5400 rackmount chassis features high-capacity system fans and an N+1 power supply with built-in redundancy and automatic fail-over protection to ensure continuous video controller operation in the event of a power supply failure.

TVC5400 CHASSIS LAYOUT DRAWING - TRENTON SINGLE-PROCESSOR SBC and BPG8032 BACKPLANE CONFIGURATION:

Side View



Top View



Front and Rear Views

TRENTON VIDEO CONTROLLER: TVC5400

SYSTEM MODEL	DESCRIPTION
TVC5400	5U rackmount computer with four front access 3.5" drive bays, one optical media bay, a choice of a DP or UP single board computer and 20-slot form-factor backplane options capable of supporting up to seventeen of the latest video controller boards

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TECHNICAL SPECIFICATIONS:

MODEL NAME	TVC5400
DESCRIPTION	5U, rackmount computer chassis with a 23" depth, four front access drive bays, SBC & backplane configurations with up to 18 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 20-slot backplane configuration supporting up to 18 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]
20-SLOT BACKPLANE OPTIONS	Trenton BPG8032, BPX6806, BPX6571[2]
BPG8032 BP CONFIGURATION	Seventeen – x16 PCI Express 2.0 electrical / x16 mechanical card slots, One – x4 PCIe 2.0 electrical / x16 mechanical card slots
PCI EXPRESS LINK ROUTING	The BPG8032 backplane utilizes PCIe link redrivers to maximize high-speed signal integrity and the PCIe switch layout minimizes data latency
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	1500W, N + 1redundant & automatic fail over power supply
COOLING	4 - 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	tbd Lbs. (t.bd 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)

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.

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