

TRC5003

TRENTON FOUR-In-ONE RACKMOUNT CHASSIS - 23" DEPTH



Trenton TRC5003 Rackmount System¹
Shown with a four-segment backplane and four SBCs

FEATURES

- Compact 5U rackmount computer consolidates four systems into one enclosure
- Ideal system for cluster computing applications
- Maximizes rackmount component mounting space efficiency
- Server-class or graphics-class PICMG 1.3 single board computer options
- Dual- or single-processor SHB or SBC options with the latest multi-core CPUs
- Four segment backplane supports multiple PCI Express option cards
- Secure front access HDD carriers and DVD media bays for each SBC segment
- Long-life, high-performance and hot-swappable system fans
- Front-panel status LEDs and front-access USB ports
- Rugged and lightweight aluminum chassis

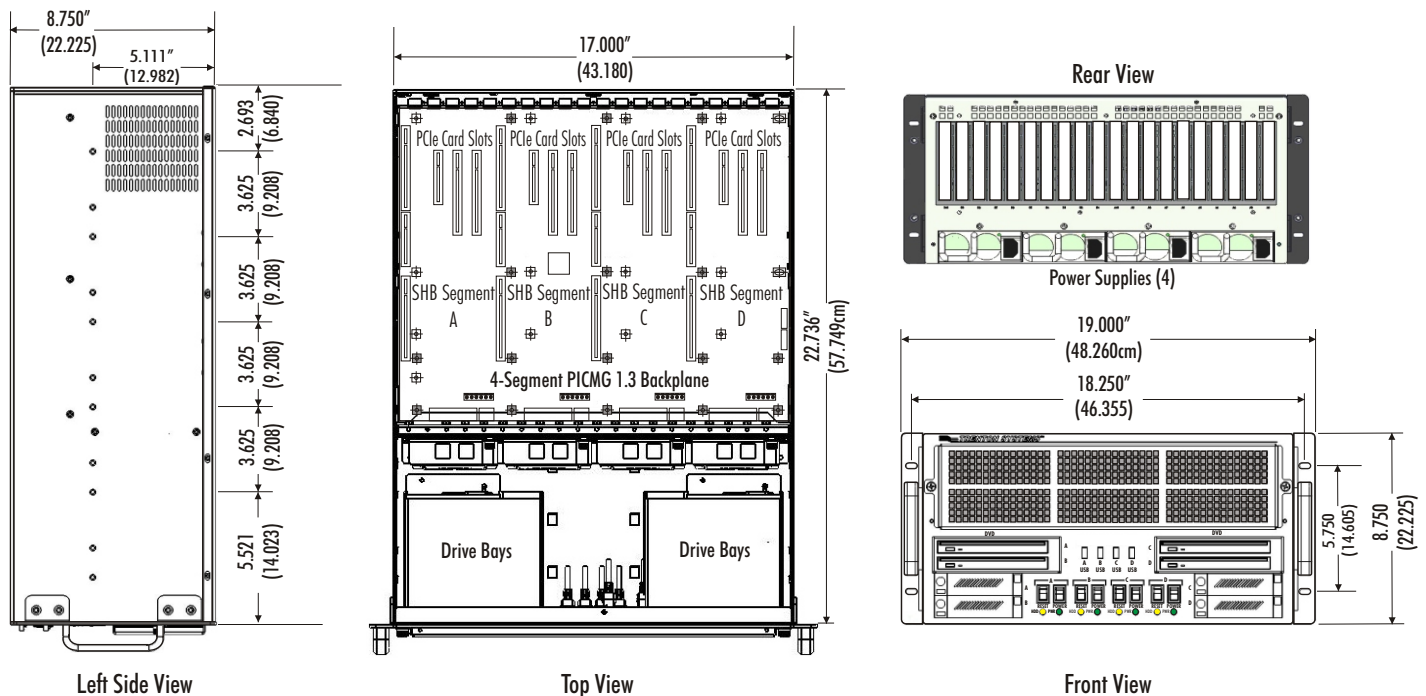


TRC5003 OVERVIEW:

The Trenton TRC5003 is a four-in-one, 5U rackmount computer chassis that provides secured front-access to the system's hard disk drives in addition to front-access DVDs and USB ports. This rackmount system is configured as a cluster computer with four PICMG® 1.3 SHBs and a four-segment PCIe backplane. The system can be delivered with one, two, three or four individual single board computers installed for maximum system scalability. See [Trenton single board computers](#) or [Trenton backplanes](#) for more details on board features and card slot configurations.

The TRC5003 rackmount chassis also features four rear access power supplies, individual segment power control and hot swap system fans. This rugged aluminum chassis is engineered to support military, government and industrial automation installations using industry standard PICMG 1.3 single board computers and backplanes for enhanced system flexibility.

TRC5003 CHASSIS LAYOUT DRAWING - 20-SLOT BP4FS6890 BACKPLANE / FOUR-In-ONE CLUSTER COMPUTER CONFIGURATION:



TRENTON RACKMOUNT COMPUTER: TRC5003

CHASSIS MODEL DESCRIPTION

TRC5003 5U rackmount chassis that features front access and key-lock HDDs, multiple media bays, and support for up to four PICMG 1.3 single board computers

TECHNICAL SPECIFICATIONS:

MODEL NAME	TRC5003
DESCRIPTION	5U rackmount chassis with a 23" depth that features a four-segment backplane, front access HDD carriers with locks and multiple media bays
CHASSIS STANDARD	EIA RS-310C 19" Rackmount Standard
CONSTRUCTION	Lightweight Rugged Aluminum
COLOR	Black
VERSION	19" Rackmount, 4-segment PCI Express backplane
UP PICMG 1.3 SHB OPTIONS	Single-Processor PICMG 1.3 SHBs - Trenton JXTS6966, TQ9, TML, MCXI-Series, MCGI-Series, SLI, NLI and other standard PICMG 1.3 SHBs
DP PICMG 1.3 SHB OPTIONS	Dual-Processor PICMG 1.3 SHBs - Trenton JXT6966, MCXT-Series, MCGT-Series, SLT, NLT and other industry standard PICMG 1.3 SHBs
PICMG 1.3 BACKPLANE	Trenton BP4FS6890 and other standard PICMG 1.3, multi-segment backplanes
REAR CHASSIS I/O INTERFACES ²	Typical I/O with Trenton SHB and IOB3x - 2 - 10/100/1000Base-T Ethernet, 2 - USB 2.0, 1 - VGA, 1 - PS/2 Mouse/Kbd, 2 - RS-232 COMM Ports
I/O CARD SLOT CONFIGURATION ³	Support for PCI Express 2.0 and PCI Express 1.1 option cards, Contact Trenton if your system configuration requires PCI-X or PCI option cards
DRIVE BAYS	8 - 2.5" HDDs, two storage drives per front access removable carrier without key locks or 4 - 2.5" front access removable carriers with key locks 4 - Front access media bays that typically support DVDs, other drive bay configurations available upon request
POWER SUPPLY	4 - Removable rear access, 1U, 520W ATX power supply per segment, other power supply options are available
COOLING	4 - Hot Swap, 92mm Ball Bearing Fans, 102CFM each, other system fan options are available
INDICATORS	LEDs for SHB Segment Power and HDD Segment Active
FRONT PORTS and SWITCHES	4- USB Ports and Individual SHB Segment Power ON/OFF and SHB Reset switches
HOLD DOWN BAR	Flexible hold down bar for the SHBs and option cards plus additional SHB hold-down brackets for added security in high vibration environments
AIR FILTER	Front access system filter for cleaning and maintenance
CHASSIS DIMENSIONS	19.00" (48.26cm) W x 8.75" (22.23cm) H x 22.74" (57.75cm) D
CHASSIS NET WEIGHT	60.0lbs. (27.24Kg) - Includes chassis, four (4) Trenton TQ9 SHBs, a multi-segment backplane and four (4) 1U power supplies

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 on page one are shown for illustrative purposes only.
2. Rear I/O interfaces vary slightly with SHB and IOB models.
3. Option card slot interface type and quantity is a function of the specific SHB and multi-segment backplane used in the final system configuration.

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