

TRC4011

TRENTON CE-COMPLIANT 4U RACKMOUNT COMPUTER



Trenton TRC4011 Rackmount System
Shown with a BXT7059 SBC and a BPG7087 backplane

FEATURES

- CE-compliant and UL recognized rackmount computer ideal for video processing and graphics or plug-in solid state storage card applications
- Features a choice of dual or single-processor single board computers offering the latest in multi-core, long-life Intel® processor technology
- Supports the Trenton BPG7087 14-slot PICMG 1.3 backplane
- BPG7087 backplane option supports ten PCI Express card slots with four card slots configured for x16 PCI Express 2.0/1.1 electrical interfaces
- 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 front and rear system I/O and network interface ports
- Lightweight, rugged aluminum chassis configuration

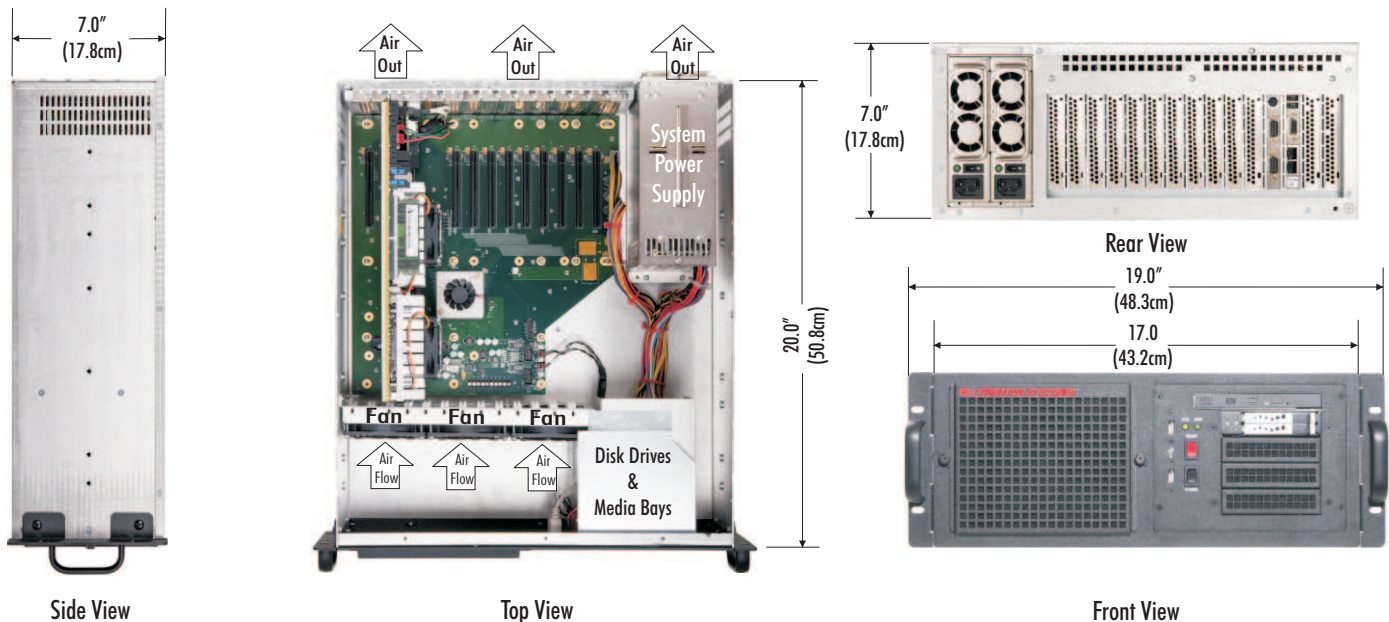


TRC4011 OVERVIEW:

The Trenton TRC4011 is a CE-compliant and UL recognized 4U system solution ideal for high-end video processing and graphics applications. The system offers a choice of long-life, high-performance, dual-processor Trenton BXT7059 or JXT6966 SBC or a single-processor TSB7053 single board computer. The heart of the TRC4011 is the 14-slot, Trenton BPG7087 backplane with its four, x16 PCI Express 2.0 electrical interfaces to the card slots plus six other PCIe x16 mechanical card slots connected with x4 electrical links. This backplane design feature and x16 PCIe slot spacing enables the TRC4011 rackmount computer to support four, high-end video processing or graphics cards as well as plug-in data storage cards.

The TRC4011 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 TRC4011 rackmount chassis features high-capacity system fans and rear-mounted power supply options to maximize system reliability in high-end visual computing applications.

TRC4011 CHASSIS LAYOUT DRAWING - BXT7059 SBC, BPG7087 BACKPLANE and REDUNDANT POWER SUPPLY CONFIGURATION¹:



TRENTON RACKMOUNT COMPUTER: TRC4011

SYSTEM MODEL	DESCRIPTION
TRC4011	CE-compliant and UL recognized 4U rackmount computer with a 20" chassis depth, four front access 3.5" drive bays and one optical media bay, a BPG7087 backplane with a choice of a dual or single-processor single board computer and a fixed-mount or redundant system power supply

TECHNICAL SPECIFICATIONS:

MODEL NAME	TRC4011-xxx
DESCRIPTION	4U, CE-compliant rackmount computer with a 20" depth, four front access drive bays and a single board computer / 14-slot backplane configuration
CHASSIS STANDARD	EIA RS-310C 19" Rackmount Standard
AGENCY APPROVALS & COMPLIANCE	The TRC4011 is CE and FCC compliant via the EMC Directive 2004/108/EC including EMI/EMC and FCC Part 15 Subpart B. The TRC4011 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.
CE CONFORMITY STANDARDS	IEC 61000-3-3:2006 including: EN55022:2006+A1 Class A CE and RE, EN61000-3-2:2005, EN61000-3-3:2008, IEC61000-6-2:2005 including EN61000-4-2:2008, EN6100-4-3:2008, EN61000-4-4:2010, EN61000-4-5:2005, EN61000-4-6:2008, EN61000-4-8:2009 and EN6100-4-11:2004
CONSTRUCTION & COLOR	Lightweight, rugged aluminum — Black front
VERSION	19" Rackmount with single or dual-processor SBC, a 14-slot backplane and either a fixed-mount or redundant power supply configuration
PICMG 1.3 BACKPLANE	14-slot - Trenton BPG7087 featuring 4 - x16 PCI Express elect./x16 mech. connectors, 4 - x4 PCI Express elect./x16 mech. connectors, 1 - x4 PCI Express/x16 mech. connector and 1 - x4/x1 PCI Express elect./x16 mech. connector NOTE: All slots support PCIe 2.0 or 1.1 cards
DUAL-PROCESSOR SBC OPTIONS	PICMG 1.3 SBCs - Trenton BXT7059 featuring Intel® Xeon® E5-2400 Series Processors or JXT6966 with Intel® Xeon® EC5500 Series Processors
SINGLE-PROCESSOR SBC OPTION	PICMG 1.3 SBC - Trenton TSB7053 featuring a choice of either an Intel® Xeon® E3-1200 Series, Intel® Core™ i7-2600, Intel® Core™ i5-2400 or Intel® Core™ i3-2120 long-life, embedded processor
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 860W, fixed - OR - Redundant ATX/EPS P/S 800W
COOLING	3 - 92mm Fans (center-mounted), 102 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 SBC and 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	20 Lbs. (9.08 kg.) - Includes chassis + TSB7053 single board computer + BPG7087 backplane + 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 are shown for illustrative purposes only.
2. Requires an optional IOB33 card on the SBC

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