



**Trenton TCS4500 Standard System**  
Factory-configured rackmount computer

### FEATURES

- Shallow-depth chassis ideal for mounting in confined spaces
- 4U system with two quad-core Intel® Xeon® processors (Jasper Forest)
- JXT6966 Single Board Computer with a 14-Slot BPC7041 backplane
- Supports up to ten PCI Express 2.0 / 1.1 option cards
- Four hot swap, front access 2.5" storage drive bays standard
- Standard options include one optical media and one storage drive with up to three additional 2.5" storage drives supported
- Multiple front and rear system interface ports
- Exclusive 5-year factory warranty on the system's SBC and backplane

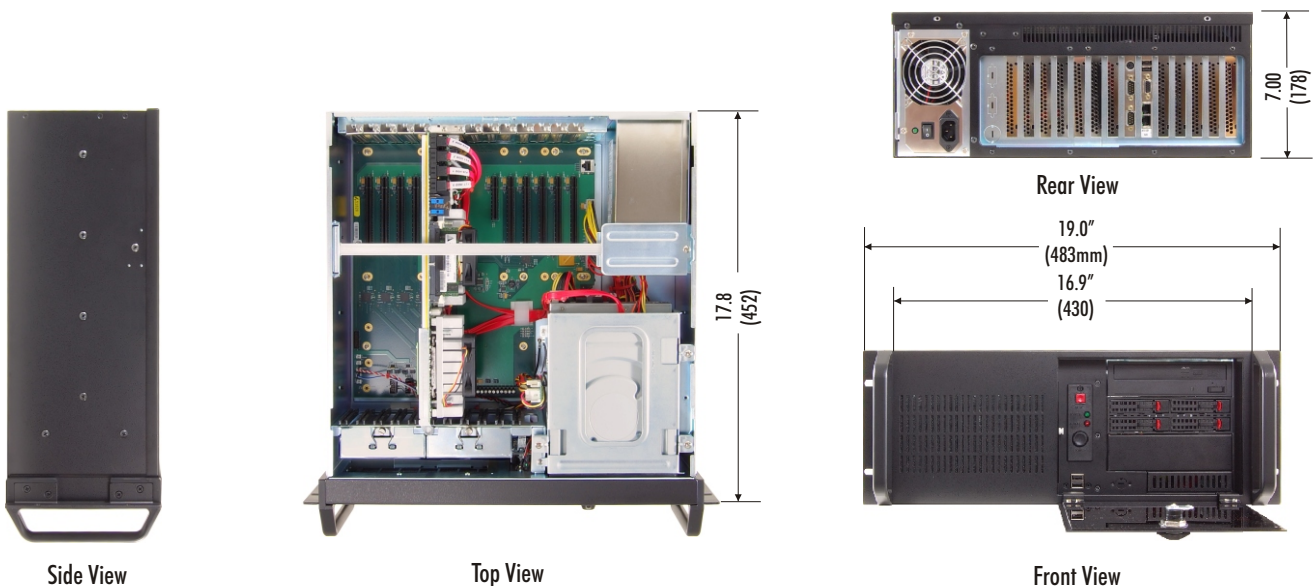


### TCS4500 OVERVIEW:

The Trenton TCS4500 is a 4U rackmount computer with a shallow depth dimension that makes it an ideal choice for applications where computer mounting space is at a premium. The system is pre-configured with a high-performance, dual-processor, Trenton [JXT6966 single board computer](#) and Trenton's [BPC7041 backplane](#). The TCS4500 is a flexible system designed to support applications that require longevity, stability and the capability of supporting multiple PCI Express 2.0 or 1.1 option cards. This server chassis combines multiple hot swap/front-access drive bays and option card support with the JXT6966 dual-processor single board computer to deliver outstanding performance in rugged embedded computing applications.

The JXT6966 inside each TCS4500 computer features long-life, embedded CPUs that ensure maximum system longevity. The TCS4500 supports a standard 500GB hard drive with a 1TB HDD optional upgrade. The system comes standard with one hot swap/front-access storage drive with the capability of adding up to three additional drives.

### TCS4500 SYSTEM LAYOUT:



### TRENTON STANDARD SYSTEM: TCS4500

SYSTEM MODEL	DESCRIPTION
TCS4500	4U rackmount computer features Trenton's JXT6966 SBC with two long-life quad-core processors and four hot swap/front-access 2.5" drive bays* <i>* Or two (2) 3.5" hard drive storage bays for 1TB HDD applications</i>

**TECHNICAL SPECIFICATIONS:**

MODEL NAME	TCS4500
DESCRIPTION	4U, rackmount computer with JXT6966 SBC, two embedded quad-core Intel® Xeon® Processors LC5528 and the Intel® 3420 PCH
STANDARD PROCESSORS	2 - Intel® Xeon® Processors LC5528 – 8M Cache, 2.13GHz, Quad-Core with Intel® Hyper-Threading
PROCESSOR UPGRADE OPTION	2 - Intel® Xeon® Processors EC5549* – 8M cache, 2.53Hz, Quad-Core with Intel® Hyper-Threading *Available Q4, 2010
MEMORY	2 - 2GB Standard (4GB total), PC3-10600 DDR3 Mini-DIMMs, May add up to four additional Mini-DIMMs
STANDARD HARD DRIVE	1 - 500GB, SATA 3Gb/s, 2.5", 7200RPM, 16M Cache
HARD DRIVE UPGRADE OPTION	1 - 1TB, SATA 3Gb/s, 3.5", 7200RPM, 32M Cache
STORAGE EXPANSION OPTION	3 - Additional 500GB hard drives or one (1) additional 1TB hard drive may be added to this system
STANDARD OPTICAL DRIVE	1 - DVD-RW
OPTICAL DRIVE UPGRADE OPTION	1 - Blu-Ray burner
VIDEO	1 - DB15 port driven by the JXT6966's graphics processing unit, supports pixel resolutions up to 1920 x 1200 (WUXGA) with a 64k color depth
DRIVE BAYS	4 - Front removable and hot swap 2.5" drive carriers and 1 - Slim device bay for optical drive media
POWER SUPPLY	1 - 860W, 90-264 VAC full range
COOLING	2 - 92mm Fans (center-mounted), 50 CFM each
INDICATORS	LEDs for LAN and HDD activity and Power Status
SWITCH	Power On/Off and System Reset
CONNECTOR PORTS	Front: 2 - USB, Rear 2 - Ethernet LANs, 2 - USB, 1 - Video, 1 - PS/2 Mouse / Keyboard, 2 - RS-232 Serial COMM Ports
OPTION CARD SLOTS	10 - PCI Express 2.0 / 1.1 – 9 - x16 mechanical (x4 electrical), 1 - x8 mechanical (x1 electrical)
METRIC DIMENSIONS	483mm (W) x 178mm (H) x 452mm (D) (with 19" rackmount handles installed)
ENGLISH DIMENSIONS	19.0" (W) x 7.0" (H) x 17.8" (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. The JXT6966 inside the TCS4500 has the IOB33 and PEX10 option cards factory installed

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