



**Trenton TCS3502 Standard System**  
Factory-configured with a DP MicroATX motherboard

### FEATURES

- A dual-processor (DP) motherboard in a shallow-depth chassis
- 3U system with two quad-core Intel® Xeon® processors
- Long-life, Jasper Forest-based MicroATX motherboard
- Supports four full-size option cards slots
- PCI Express 2.0/1.1 card slots plus a PCI slot
- Two hot swap, front access storage drive bays plus an internal HDD bay and an optical media bay
- Multiple front and rear system interface ports
- A TPM 1.2 for Trusted Computing applications

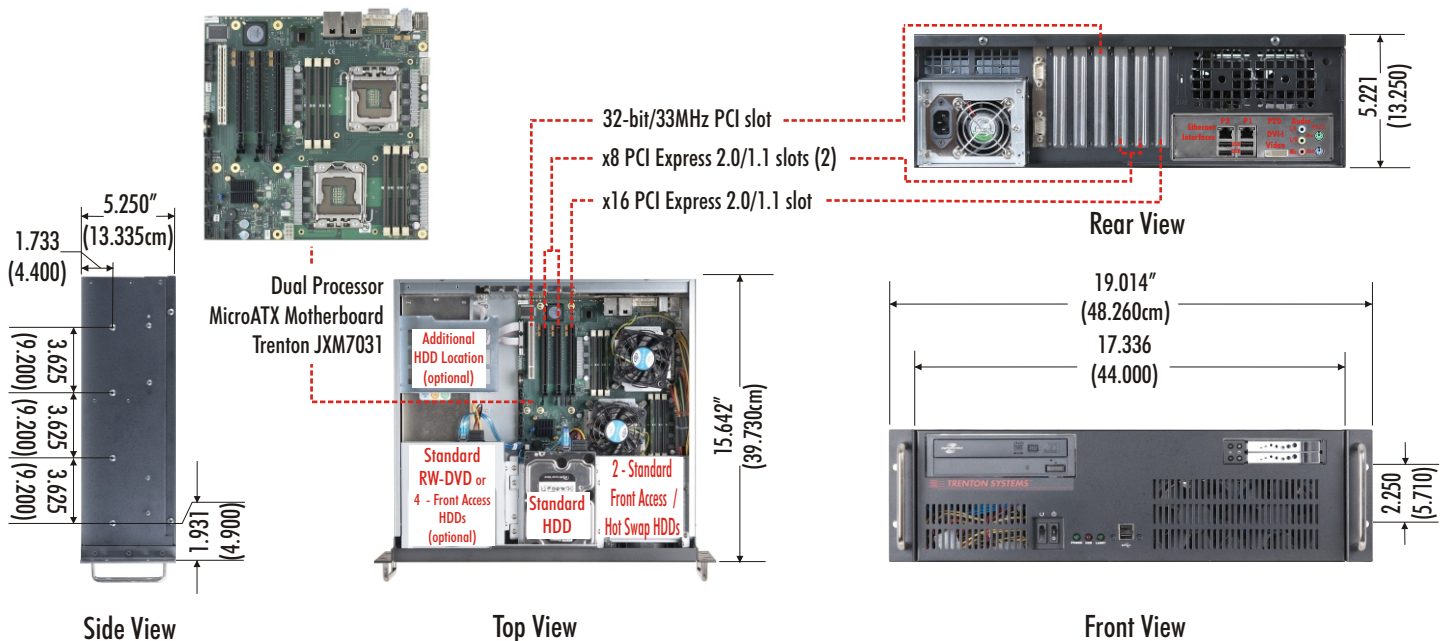


### TCS3502 OVERVIEW:

The Trenton TCS3502 is a 3U rackmount computer pre-configured with a high-performance, dual-processor MicroATX (uATX) motherboard. The TCS3502 is a flexible system designed to support applications that require a shallow 15.7" depth for mounting in component racks where equipment space is at a premium. This rackmount computer provides a unique combination of space savings, PCI Express 2.0 option card support, expanded data storage and dual-processor MicroATX motherboard performance in long-life embedded computing applications.

The standard system configuration features two, quad-core Intel® Xeon® Processors EC5549 (Jasper Forest). An alternative CPU option is available using two Intel® Xeon® Processors EC5509. Each TCS3502 system uses long-life, embedded CPUs to ensure maximum system longevity. The standard TCS3502 system supports an internal 500GB 3.5" hard drive, two 120GB 2.5" front access / hot swap HDDs and one optical media device. Additional data storage options are available with the TCS3502 system including a 1TB upgrade for the internal 3.5" HDD.

### TCS3502 SYSTEM LAYOUT:



### TRENTON STANDARD SYSTEM: TCS3502

SYSTEM MODEL	DESCRIPTION
TCS3502	3U rackmount computer features an extended-life uATX motherboard, two long-life quad-core processors and PCI Express 2.0/1.1 option card slots

**TECHNICAL SPECIFICATIONS:**

MODEL NAME	TCS3502
DESCRIPTION	3U, rackmount computer with a long-life uATX motherboard, two embedded quad-core Intel® Xeon® Processors EC5549 and the Intel® 3420 PCH
STANDARD PROCESSORS	2 - Intel® Xeon® Processors EC5549 – 8M Cache, 2.53GHz, Quad-Core with Intel Hyper-Threading
ALTERNATE PROCESSOR OPTION	2 - Intel® Xeon® Processors EC5509 – 8M cache, 2.0Hz, Quad-Core without Hyper-Threading
MEMORY	2 - 1GB, PC3-10600 DDR3 DIMMs
STANDARD HARD DRIVES	1 - 500GB, SATA, 3.5", 7200RPM, 32M Cache, Internal HDD chassis mounting and 2 - 120GB, SATA, 2.5" Front Access/ Swap HDDs
HARD DRIVE UPGRADE OPTIONS	1 - 1TB, SATA, 3.5", 7200RPM, 32M Cache, Internal HDD chassis mounting and 2.5" front access/ hot swap capacity upgrades as available
STORAGE EXPANSION OPTION	5 - Additional hard drives may be added to this system, 4 of the 5 possible HDDs can be installed in front access/hot swap drive bays <sup>2,3</sup>
STANDARD OPTICAL DRIVE	1 - DVD-RW
OPTICAL DRIVE UPGRADE OPTION	1 - Blu-Ray burner
VIDEO	1 - DVI-I video port supports analog or digital monitors with 8MB of on-board video memory to drive pixel resolutions up to 1920 x 1200 (WUXGA)
DRIVE BAYS	2 - Internal 3.5" drive bays, 2 front access 2.5" HDDs in a 3.5" hot swap bay, 1 - 5.25" bay for optical drive media or 4 optional 2.5" HDDs
POWER SUPPLY	1 - 2U, EPS, 600W, 90-264 VAC full range
COOLING	2 - 80mm Fans (front-mounted)
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, 4 - USB, 1 - Video, 3 - Audio (Line In, Line Out and MIC), PS/2 Mouse & PS/2 Keyboard, 7 - Option Bays
OPTION CARD SLOTS	PCI Express 2.0/1.1 – 1 - x16 mechanical (x16 electrical) and 2 - x16 mechanical (x8 electrical) PCI – 1 - 32-bit/33MHz (5V)
DIMENSIONS	19.0" / 48.3cm (W) x 5.2" / 13.2cm (H) x 15.7" / 39.9cm (D) (with 19" rackmount handles installed)
CHASSIS NET WEIGHT	31.64Lbs. (14.36 Kg) chassis + JXM7031 motherboard + standard 2U EPS power supply only

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. Four of the front access / hot swap 2.5" optional HDDs take the place of the standard 5.25" optical drive
3. Trenton JXM7031 supports up to six SATA 300 drives. An extra SATA card is required to support all of the optional TCS3502 drive bays.

Microsoft is a registered trademark of Microsoft Corporation. All other product and/or company names are trademarks or registered trademarks of their respective owners.

Copyright ©2010 by TRENTON Systems Inc., All rights reserved

