FEATURES

- **Superior, long-life system performance in a compact chassis design**
- **Stable MIL-COTS computer hardware configurations support long program development cycles and extended hardware deployments**
- **Long-life, MicroATX motherboard with PCI Express 2.0 card support**
- **Dual or single-processor options featuring the latest multi-core CPUs**
- **System supports low-profile PCI Express 2.0, PCIe 1.1 and PCI cards**
- **Flexible front-access/hot-swap data storage drive carrier options**
- **Customer-driven power supply options**
- **Lightweight aluminum chassis design**

Trenton TRC2004 Rackmount System
Shown with a dual-processor MicroATX motherboard

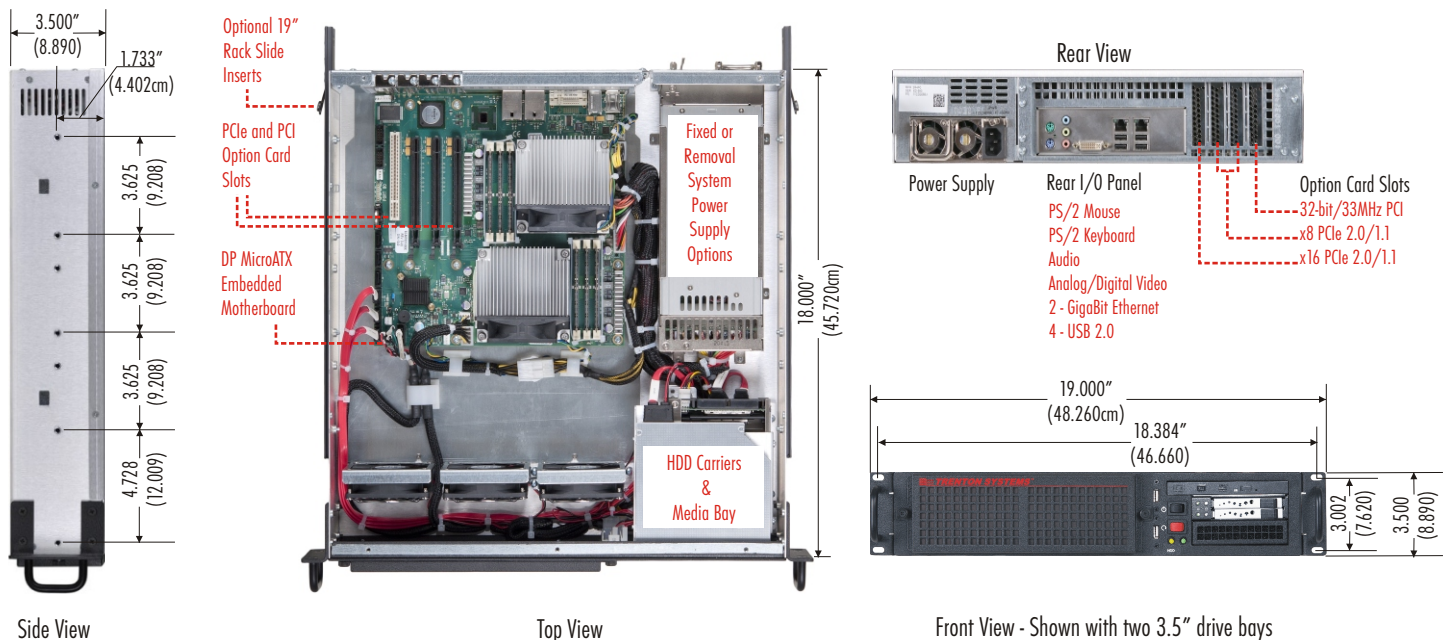**TRENTON SYSTEMS™**
Engineered For Reliability

TRC2004 OVERVIEW:

The Trenton TRC2004 is designed for applications that require outstanding system performance in a stable computing platform having extensive data storage capacity. This rugged and yet lightweight (22.0 lbs/10.0 kg) industrial computer is constructed using a 2U, rackmount aluminum chassis with a shallow 18" depth for mounting in areas where component space is at a premium. The TRC2004 is configured with Trenton's exclusive dual-processor, MicroATX long-life motherboard (JXM7031) with an available configuration option that supports a single CPU. The dual-processor configuration supports one x16 PCI Express® 2.0/1.1 card as well as two additional x8 PCIe option cards. The system also supports a 32-bit/33MHz PCI option card.

The TRC2004 system solution supports up to four storage drives, a slim-line optical media drive and offers multiple power supply configuration options. The 18.0" chassis depth enables support for the wide variety of full-length/low-profile option cards typically used in diverse applications such as military systems, industrial automation machinery and medical diagnostics.

TRC2004 CHASSIS LAYOUT DRAWING - LONG-LIFE EMBEDDED MOTHERBOARD CONFIGURATION[1]:

3.500" (8.890)
1.733" (4.402cm)
3.625 (9.208)
3.625 (9.208)
3.625 (9.208)
4.728 (12.009)

Optional 19" Rack Slide Inserts
PCIe and PCI Option Card Slots
DP MicroATX Embedded Motherboard

Fixed or Removal System Power Supply Options

18.000" (45.720cm)

HDD Carriers & Media Bay

Rear View

Power Supply

Rear I/O Panel
PS/2 Mouse
PS/2 Keyboard
Audio
Analog/Digital Video
2 - GigaBit Ethernet
4 - USB 2.0

Option Card Slots
32-bit/33MHz PCI
x8 PCIe 2.0/1.1
x16 PCIe 2.0/1.1

19.000" (48.260cm)
18.384" (46.660)
3.002 (7.620)
3.500 (8.890)

Side View

Top View

Front View - Shown with two 3.5" drive bays

TRENTON RACKMOUNT COMPUTER: TRC2004

CHASSIS MODEL DESCRIPTION

TRC2004 — 2U rackmount system solution with an 18.0" depth, dual-processor MicroATX embedded motherboard, x16 and x8 PCI Express 2.0 card slots, up to four font access data storage drives and flexible power supply options

TECHNICAL SPECIFICATIONS:

MODEL NAME	TRC2004
DESCRIPTION	2U, 18" deep, rackmount computer with front access / hot swap HDD bays, flexible power supply options, a dual-processor MicroATX motherboard
CHASSIS STANDARD	EIA RS-310C 19" Rackmount Standard
CONSTRUCTION	Lightweight Rugged Aluminum
COLOR	Black (Front)
VERSION	19" Rackmount, long-life embedded MicroATX motherboard in a shallow-depth enclosure with up to four front access storage drives
DP MOTHERBOARD OPTIONS	Trenton JXM7031 dual-processor MicroATX motherboard
UP MOTHERBOARD OPTIONS	Trenton JXMS7031 single-processor MicroATX motherboard and other industry standard MicroATX motherboards
REAR CHASSIS I/O INTERFACES[2]	Typical I/O with Trenton JXM7031 motherboard: 2 - 10/100/1000Base-T Ethernet, 4 - USB 2.0, 1 - DVI-I, 1 - PS/2 Mouse, 1 - PS/2 Kbd and Audio Ports
I/O CARD SLOT CONFIGURATION[3]	Support for 1- x16 PCI Express 2.0/1.1, 2 - x8 PCIe 2.0/1.1 and 1- 32-bit/33MHz PCI low-profile option cards where H = 1.43" (36.07mm) to 2.54" (64.41mm)[4]
DRIVE BAYS	2 - 3.5" drive bays or 4 - front removable 2.5" drive carriers for a SATA HDDs, 1 - Slim-line optical media drive bay
POWER SUPPLY OPTIONS	2U fixed rear-mounted (650W) or 1U removable (400W) ATX/EPS P/S , other P/S options available upon request
COOLING	3 - 80mm Fans (font-mounted), 67CFM each, other system fans are available
INDICATORS	Front LEDs for HDD activity and power status and rear LEDs for LAN activity
FRONT PORT and SWITCHES	2 - USB ports, 1- Power On/Off switch and 1- System Reset switch
AIR FILTER	Front access system filter for cleaning and maintenance
CHASSIS NET WEIGHT	22.0Lbs. (10.0 Kg) chassis + DP JXM7031 motherboard + system power supply only
METRIC DIMENSIONS	48.3cm (W) x 8.9cm (H) x 45.7cm (D) (with 19" rackmount handles installed)
ENGLISH DIMENSIONS	19.0" (W) x 3.5" (H) x 18.0" (D) (with 19" rackmount handles installed)

NOTES:
1. The chassis photos and drawings on page one are shown for illustrative purposes only.
2. Rear I/O interfaces based on the Trenton single-processor JXMS7031 or dual-processor JXM7031 embedded motherboard.
3. Option card slot interface type and quantity is a function of the dual-processor JXM7031 embedded motherboard.
4. Industry standard low-profile card height range specified by the PCI-SIG.

Trenton Systems offers complete system integration for both standard and custom operating systems as well as application software packages. 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. Contact Trenton for more information.

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