

THS5088

TWO-in-ONE HDEC® Series 5U RACKMOUNT COMPUTER

FEATURES

- Rackmount computer with independent 2-in-1 high density embedded computing (HDEC) platforms/system segments in a rugged chassis
- Supports two small form factor HDEC Series® backplanes including the HDB8236
- Each HDB8236 is a switchless backplane that supports five PCI Express card slots with four card slots configured for x16 PCI Express 3.0/2.0/1.1 electrical interfaces
- Features two long-life HDEC Series system host boards each with two Intel® Xeon® E5-2600 v3 series processors delivering 80 native PCIe 3.0 links per system segment
- Provides multiple, built-in Ethernet network interfaces including 10GbE and 1GbE
- Enables secure network-centric data storage
- Stable 2-in-1 system platform supports long project cycles and field deployments
- Five-year host board and backplane warranty
- Made in U.S.A.



THS5088 HDEC Series Rackmount Computer
Shown with two SFF backplanes and two SHBs

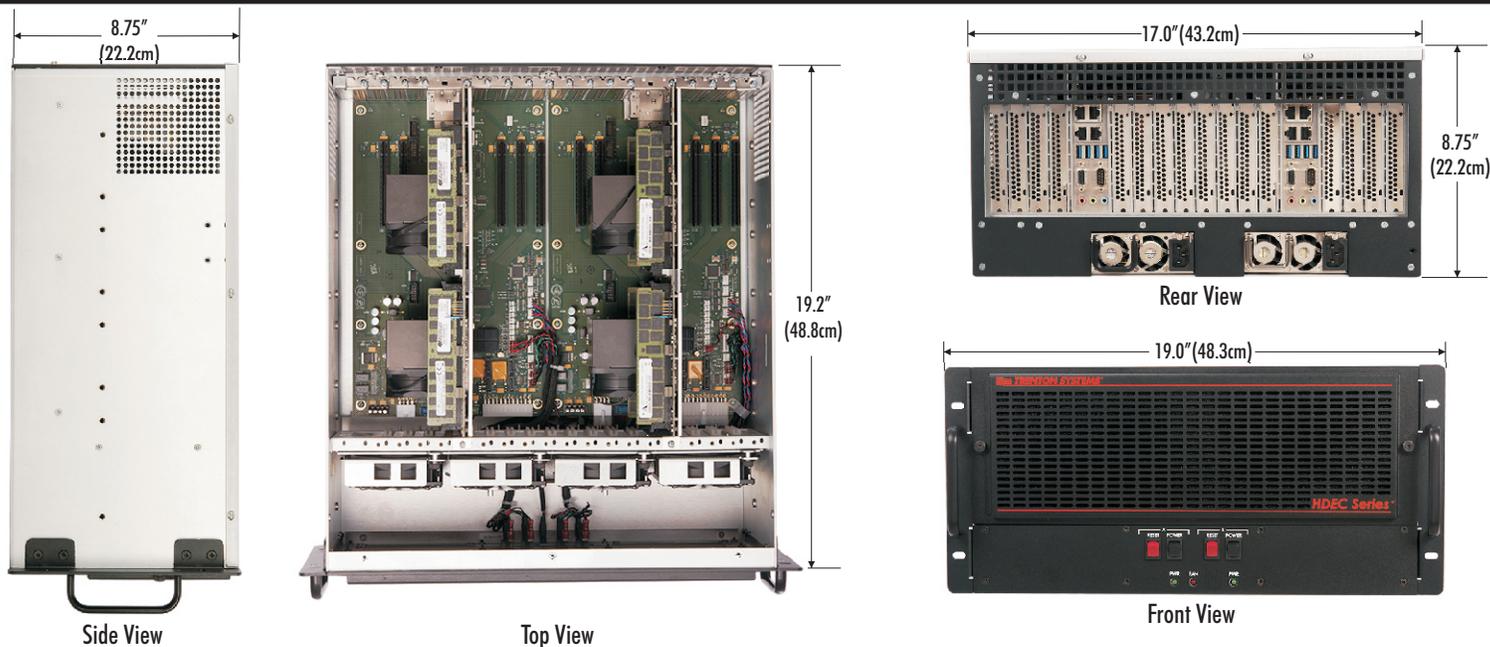


THS5088 OVERVIEW:

The Trenton THS5088 is an HDEC Series 5U rackmount computer that features two HEP8225 HDEC Series system host boards and two HDB8236 backplanes. Each backplane/SHB combination or segment, operates independently in order to provide total software application isolation in enhanced data security applications. There are no local data storage drives or optical media devices in the THS5088 in order to support secure, network-centric data storage and application software management. This 19" industrial rackmount computer features a rugged, lightweight, aluminum chassis design with a shallow chassis depth, and the two-in-one system configuration maximizes component rack space utilization. Each system segment has an independent and rear-removable ATX/EPS power supply.

The THS5088 features two independent backplanes and system host boards that delivers the ultimate system solution for secure software applications that are common in government and defense applications. The high density system configuration flexibility and rugged computer design enables deployment across a wide spectrum of industries that demand longevity and robust computing performance. Like all of our rugged customer-driven computing solutions, the THS5088 is designed, integrated and supported by Trenton Systems in the United States. Our exclusive 5-year factory warranty on the system host boards and backplanes comes standard with the Trenton THS5088 HDEC Series 5U rackmount computer.

THS5088 LAYOUT¹ - DUAL HDEC Series System Host Boards and SMALL FORM FACTOR "Shoebox" BACKPLANES:



TRENTON HDEC Series RACKMOUNT COMPUTER: THS5088

SYSTEM MODEL	DESCRIPTION
THS5088	HDEC Series 5U rackmount computer with two independent computing segments each comprised of an HEP8225 system host board, an HDB8236 small form factor backplane, with no local drives for secure network-centric data gathering, and a rear-access, easy swap segment power supply.

TECHNICAL SPECIFICATIONS:

MODEL NAME	THS5088
DESCRIPTION	5U, HDEC Series 2-in1 rackmount computer chassis supports dual and independent HDEC Series SHB and small form factor “shoebox” backplane segments
CHASSIS STANDARD	EIA RS-310C 19” Rackmount Standard
CONSTRUCTION & COLOR	Lightweight, rugged aluminum – Black front
HDEC Series SYSTEM HOST BOARD	2 - HEP8225 Dual Processor SHBs with two Intel® Xeon® E5-2600 v3 Processors (Haswell-EP), USB 3.0, USB 2.0, SATA, Ethernet, Serial, Video and Audio Interfaces
SYSTEM HOST BOARD I/O DETAILS	The HEP8225 SHB supports the following: 2 - 10GbE and 2 - GbE Ethernet interfaces, 6 - USB 3.0 and 4 - USB 2.0 interfaces, 2 - SATA/600 on-board ports, 6 - SATA/600 backplane interfaces, 1 - RS232/422/485 port, 1- VGA Video port, Audio Out/Line In/ Mic, Fan Speed Control lines, and System Diagnostics
HDEC Series BACKPLANE OPTIONS	2 - Small Form Factor “shoebox” backplanes - Trenton HDB8236, or other standard HDEC Series small form factor backplanes
PCI EXPRESS PLUG-IN CARD SLOTS	HDB8236: 5 card slots ² : 4 – x16 and 1 - x8 PCI Express 3.0/2.0/1.1 electrical/x16 mechanical
HDEC Series BACKPLANE I/O	HDB8236: PS2+ system power with an additional terminal block for high current applications, 4 - SATA/600, 2 - USB 3.0, System Fans, LED dimmer, System Speaker, ACPI soft power, intruder alert, PS/2 mouse and keyboard, temperature sensors, SMB, SHB Present, and Clear CMOS
DRIVE BAYS	None.
DATA STORAGE CAPACITY	No local data storage. Supports secure, network-centric data gathering applications.
POWER SUPPLY	Each THS5088 segment supports one rear-mounted and removable, ATX/EPS, 1,000W nominal
COOLING	4 – Hot Swap 92mm ball bearing fans, 102CFM each
INDICATORS	Each segment has an LED for Power Status with a system-wide LED for System Fan Status
SWITCHES	Each segment has a Power On/Off, and System Reset switch
HOLD DOWN BAR	Flexible hold down bar for each segment’s SHB and the PCI Express plug-in 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	41.6 Lbs. (18.9 Kg.) – includes chassis + 2, dual-processor HDEC Series SHBs + 2, small form factor shoebox format backplanes + 2, rear-access power supplies
METRIC DIMENSIONS	48.3cm (W) x 22.2cm (H) x 48.8cm (D) (with 19” rackmount handles installed)
ENGLISH DIMENSIONS	19.0” (W) x 8.75” (H) x 19.2” (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. Industry certifications and approvals for specific system configurations are also available.

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.

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NOTES:

1. The chassis photos are shown on page one are for illustrative purposes only.
 2. The PCIe2 card slot on each backplane may not be available with high performance processor options.
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