



PCIe Expansion Systems

4U and 5U expansion chassis with ample power to run lots of PCIe slots and host multiple option cards. Provide total bidirectional throughtput between a host system and a target expansion system, delivering expanded I/O capabilities needed to support evolving workloads.



UP TO 18 ADDITIONAL PCIe 3.0 SLOTS

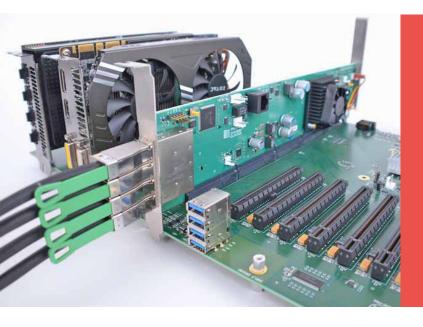
Incorporate up to 18 additional PCIe 3.0 slots, allowing you to scale your system in response to your most complex application or program needs.



Connect host card to any system with a x16 slot. Easily add or remove I/O devices or make changes to existing components.



Offload tasks from the host system and dedicate specific tasks to separate option cards, reducing congestion, latency, and resource contention.



Overview

PCIe Expansion Systems, in 4U and 5U height, allow you to easily connect a host system to a target system via a card and cable architecture

With x4, x8, and x16 PCle 3.0 slots, greatly expand I/O capabilities with a wide range of option cards that can be easily added or removed to meet the demands of everchanging workloads.

Choose from a wide range of chassis and backplane configurations to craft a system that best fits your technical, performance, and environmental requirements!

intel.

SOLUTION HIGHLIGHTS



Multi-layer cybersecurity creates a secure computing platform while enhancing resilience against sophisticated cyberthreats.



Strict revision control is achieved through Trenton's approved vendor list (AVL), ensuring engineer-vetted parts



In-house engineers (hardware, software, mechanical, and electrical) control the design of your system down to the board and chip level.



Five-year warranty means we will repair, replace, or refund for any potential defects in material, workmanship, and design.



Counterfeit Protection Program (CPP) helps Trenton detect, remove, and destroy counterfeit parts and components.



TAA compliance is achieved because Trenton manufactures PCIe Expansion Kits, and its other solutions, in the United States.



Lifetime support gives you unlimited access to our team of experts that help troubleshoot problems and offer solutions.



Vetted supply chain helps protect your system from potentially compromised counterfeit electronic parts and components.



CSfC, ITAR, ISO9001, and AS9100 adherence and compliance allow Trenton to consistently provide secure, high-quality computing solutions.

Technical Overview

SPECIFICATION	DETAILS
Host/Target Card	Under 2.85" high, each has 4x x4 PCIe Cable Ports (Quad SFF-8644 Connectors)
Cables	1-3m long, each has 4x x4 SFF-8644 Cable Plugs (PCIe x16 Edge Connectors)
Storage	Up to 52x SATA SSDs, 1x SlimeLine optical SSD (FIPS 140-2/3 available)
Form Factors	4U - 5U chassis between 16.5" - 24.5" depth
Network Interface	1x 1GbE port supporting IPMI via backplane
PCIe Interconnect	x4, x8, and x16 PCIe 3.0 slots
Power	High Wattage, redundant/N+1/non-redundant, non-461 fixed or removable

BACKPLANE VARIATIONS		
#	BACKPLANE	SLOTS
1	HDB8228	8X FHFL PCIE 3.0: 4X X16 AND 4X X4
2	HDB8259	15X FHFL PCIE 3.0: 4X X16 AND 11X X8
3	HDB8231	18X FHFL PCIE 3.0: 2X X8 AND 16 X4
4	HDB8228, HDB8259, HDB8231	X1, X4, X8, AND X16 HALF-HEIGHT OR FHFL PCIE 3.0/4.0/5.0

CHASSIS VARIATIONS		ONS		
#	BACKPLANE	DEPTH	POWER SUPPLY	STORAGE (NOT OFFERED BY DEFAULT, ONLY VIA A PCIE RAID CONTROLLER)
1	THS4086 (4U)	16.5"	1X 1200W NON-REDUNDANT, NON-461, FIXED, OR 2X 800W REDUNDANT, NON-461, REMOVABLE	UP TO 12X FRONT-REMOVABLE SATA DRIVES AND 1X SLIMLINE OPTICAL DRIVE
2	THS4095 (4U)	26"	1X 1200W NON-REDUNDANT, NON-461, FIXED	UP TO 16X FRONT-REMOVABLE SATA DRIVES AND 1X SLIMLINE OPTICAL DRIVE
3	THS5095 (5U)	19.5"	1X 1200W NON-REDUNDANT, NON-461, FIXED	UP TO 6X FRONT-REMOVABLE SATA DRIVES AND 1X SLIMLINE OPTICAL DRIVE
4	THS5087 (5U)	23"	2X 1500W N+1, NON-461, FIXED, OR 2X 2430W N+1, NON-461, FIXED	UP TO 12X FRONT-REMOVABLE SATA DRIVES AND 1X SLIMLINE OPTICAL DRIVE
5	TSS5201 (5U)	24.5"	2X 1200W REDUNDANT, NON-461, REMOVABLE	UP TO 48X FRONT-REMOVABLE SATA DRIVES, 4X INTERNAL SATA DRIVES, AND 1X SLIMLINE OPTICAL DRIVE
6	4U-5U	16.5"-26"	LOW/MID/HIGH WATTAGE, REDUNDANT OR NON-REDUNDANT, 461-OPTIONAL, FIXED OR REMOVABLE	SAS/SATA/NVME DRIVES (INTERNAL, FRONT-REMOVABLE, VIA RAID CONTROLLER, OR VIA RISER)

If you need a different system variation not listed above, please contact a Trenton Systems engineer to configure a system or solution to your specific application or program requirements.

Contact us for pricing and availability.

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