



PERFORMANCE. EXPANDED.









The High Capacity, Fastest and Most Modular Direct Attached NVMe Storage Device for VDI and HPC











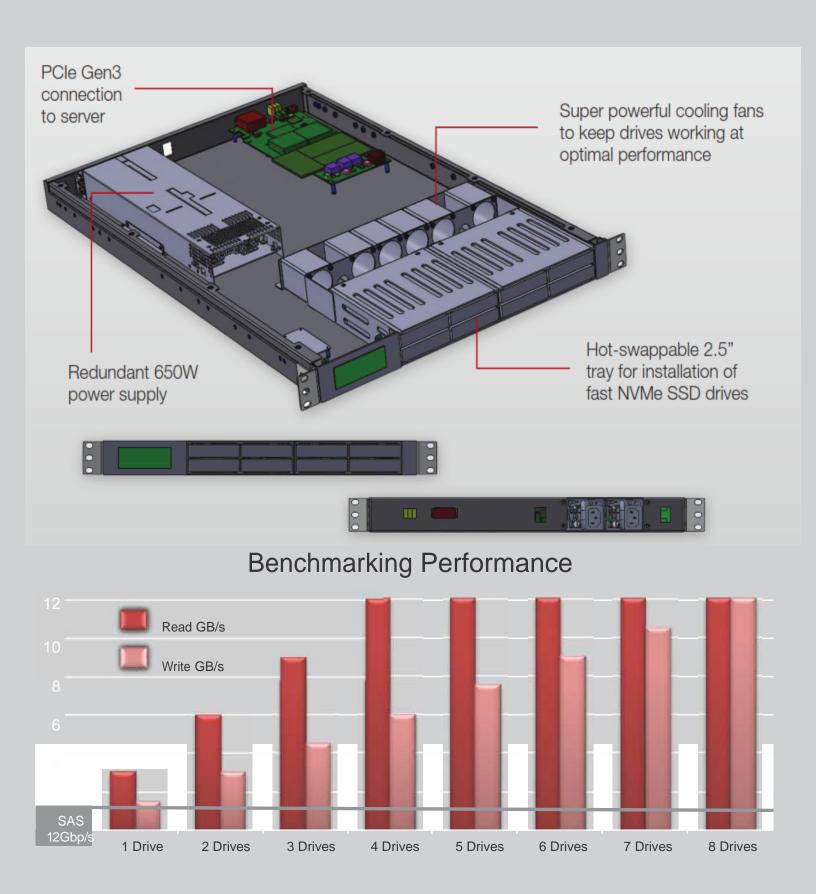
The Cheetah Storage Box 1000 (CSB1000) direct-attached storage is a first generation small-form factor NVMe 2.5-inch drive expansion enclosure. Designed for legacy servers, CSB1000 eliminates the need to purchase new server platform to gain the significant performance improvement NVMe offers over SAS SSDs.

- √ High Capacity 1U chassis with 25TB+ SSD NVMe storage
- √ High Density 1U high chassis attach one CSB1000 per PCle slot in server
- √ High Speed All Gen3 PCIe performance, no latencies, high IOPS, zero performance trade-off
- √ High Serviceability LCD status panel and web interface, hot swappable NVMe drives and 650-watt redundant power supply
- ✓ Way better than SAS/SATA Enhanced security, 10x faster, 20x more compact, and 100x more reliable compared to legacy storage
- ✓ Modular Scalability Pay as you go, install variety of drive sizes

- √ Hardware Agnostic Works with existing or new servers
- √ Transparent Connection Highly reliable "box to box" PCIe Gen3 connection with no additional software required
- √ Highly Engineered Cable Proprietary PCle Gen3 cabling tuned for high signal integrity
- √ Top Quality Design Unmatched PCIe expertise and supreme materials for data integrity
- ✓ Manufacturing Test Supreme quality control and thorough error code testing for each unit
- ✓ Pre-Sales Technical Support Access to engineering and support resources before you buy







Integrate NVMe Storage to any Compatible Server

Cheetah Storage Box 1000 (CSB1000) provides 25.6TB of NVMe SSD storage through eight 2.5" drives. The CSB1000 attaches through a PCle card and cable operating at 128Gbps. This 1U JBOF (Just a Bunch of Flash) provides super-fast drive performance and low latency for the most demanding VDI and HPC applications.

Standalone Integration: The CSB1000 attaches to PCIe Gen3 servers using Cheetah's x16 Gen3 PCIe host card and specialized high performance Gen3 PCIe cable.

Maximum Drive Performance: Experience up to 12+GB/s bandwidth (12x bandwidth of high end SAS).

Designed for Scalability: One CSB1000 holds up to eight (8) NMVe drives per PCle slot and offers scalability capacity to thirty-two (32) NVMe drives using a Cheetah ExpressBox 3600 and four Cheetah CSB1000s.

Hot-Swappable Drives: Remove and replace eight (8) 2.5" NVMe drives - no need to turn off and reboot.

Remote Management Monitoring: Easy web interface for power user to check health of device. PCIe lane performance, drive operations parameters, fan and error conditions are viewable on the LCD screen and reported through web interface.

RAID Support: Software RAID level support provided by the drive manufacturer.

Reliability, Accessible and Serviceable: High performance fans, robust 650W redundant power supply and optimal thermal design.

Made for Rack-mounting: Rack slides from Accuride are shipped pre-installed for easy installation.

Compatibility: Cheetah CSB1000 is a complementary product to any compatible 2U enterprise servers from OEMs like Cisco, Lenovo, IBM and Oracle. NVMe drivers are available across operating systems – including Windows and Linux. The full list operating system driver support is available online with the NVM Express organization.

Box to Box Design – Server to CSB1000



Server 2 PCle Slots

4U Rack Space One SB1000 per PCle Slot



Server 4 PCle Slots

8U Rack Space One CSB1000 per PCle Slot

Specs	Product Name	Cheetah Storage Box 1000		
	Part Number	CSB1000		
	Description	Direct-attached storage NVMe drive enclosure		
	Cable Options	1 meter - Part Number: CBL1G3 2meter - Part Number: CB	L2G3	
Drives and Capacity	Drives	Up to eight (8) 2.5-inch hot-pluggable NVMe solid-state drives (SSD)		
	Performance & Capacities	Intel® Drive Options SSD DC P3700 Series UltraStar SN100 (3.2TB, 1.6TB) SSD DC P3600 Series		
	Max. Capacity (per enclosure)	Up to 25.6TB when using 8 x 3.2TB NVMe SSD		
Host Connectivity	Connection	Low profile x16 PCle Gen3 card and 2 cables		
	Operating Systems	Microsoft Windows, Windows Server Linux, UNIX, Solaris, Hypervisors		
Enclosure Monitoring and RAID	Fan	Tachometer reports RPM of each of the dual fans		
	GUI	Web server accessible over Ethernet port on rear of chassis. Front panel: any		
	LCD Panel	Display indicates power to the box, IP address of the web server and fan speeds		
	RAID	Software RAID level support provided by the drive manufacturer		
Back-Panel Connectors	Host Connectivity	2 PCIe connectors for connection to server = x16 cable		
	Service Management	1 Ethernet connector for connection to system monitoring tool		
Enclosure	Rack Spaces	1U High		
	Dimensions	19" wide, 1.75" tall, 28" deep		
	Power Supply	650 Watt Redundant Input voltage range 100~240VAC Full Range Frequency range 47/63 Hz		
	Expansion	Multiple CSB1000 can be connected through any available PCIe slot in server		
	Cooling	Six 30.2 CFM fans for drives One fan in each power supply module		
	Rack support	Accuride Model 2907WB		
	Weight	46lbs		
Environmental	Environmental	Operating 0° to 70°C Storage: -40° to 70° C		
Regulatory	FCC Class A Verified	CE Certified RoHS compliant		
Warranty	Return to Factory	1 Year or more		
Certifications	ISO 9001:2008 Certified	NVMe Specification 1.2a	Specifications are	
	PCISIG	PCI Express Specifications: Rev 3.1	subject to change without notice.	