

 Broadberry

CyberStore WSS Cluster-in-a-Box[®]

 CyberStore WSS[®]

CyberStore WSS Cluster-in-a-Box

Designed for applications that require a highly available storage configuration, the CyberStore WSS CB220 is a 2U 2-node Cluster-in-a-Box server. Two server nodes are clustered via a GbE interconnection and sharing 12 disk drives in a 2U chassis. One of the SKUs offers PCIe Gen3 switch to support On-The-Fly cache synchronisation. Each node is equipped with dual Intel® Xeon processor E5-2600 /E5-2600 v2 product family and 16 DIMM slots. Its clustered nodes and shared storage design simplifies cable management and saves rack space by eliminating the need for external shared storage. In addition, the shared infrastructure design provides excellent power and cooling efficiency, as well as infrastructure investment savings.

Clustered nodes and shared storage design offers high density, high availability, simplified cable management, and energy savings

Two server nodes are interconnected with a heartbeat channel and can be configured as an active/active operation by storage software for applications demanding high availability. Both nodes share the same in-chassis storage space, offering space and complexity reductions compared to traditional clustered solutions that require external shared disk enclosure, numerous network cables, and complex system configurations.

Shared infrastructure design delivers energy & cooling efficiency

Both server nodes share the same chassis, redundant power supplies, and fan modules, which delivers energy and cooling efficiency, as well as infrastructure investment savings.

Enhanced I/O Scalability and Flexibility

The CyberStore CB220 provides flexible and scalable I/O configurations. Its onboard network offers dual GbE or dual 10GbE RJ45 port options. Expansion options include (I) one standard PCIe slot plus one PCIe mezzanine slot for SAS/RAID or 10GbE SFP+ adaptor or (II) three standard PCIe low-profile slots.

Powering these organisations



CyberStore WSS[®] Storage Appliances:

Intel® Xeon® Processor
E5 Family



Based on the award winning Windows Storage Server 2012 operating system, the CyberStore WSS range of feature-rich iSCSI SAN/NAS servers were voted the best storage appliances available in 2012, 2013 and 2014.

-  Familiar Windows Interface
-  Data Deduplication
-  Thin Provisioning
-  Cloud-Delivery Server



CyberStore WSS Cluster-in-a-Box[®]

Form Factor (L x W x H)	X5 (2U chassis) 774.7mm x 447mm x 87.3mm 30.5" x 17.6" x 3.44"	Power Supply	(2) 1100W high efficiency 80plus platinum redundant PSUs, 100-240VAC 50/60Hz
MB Size (W x L)	6.5" x 19.38" (half-width)	OS supported	Windows Storage Server 2012, VMWare, Ubuntu, Red Hat, Solaris
Processor	(2) Intel [®] Xeon [®] processor E5-2600/E5-2600 v2 product family per node	RoHS	Yes
Chipset	Intel [®] C602 Chipset	Operating Environment	Operating temperature: 5°C to 35°C (41°F to 95°F) Non-operating temperature: -40°C to 65°C (-40°F to 149°F) Operating relative humidity: 50% to 85%RH Non-operating relative humidity: 20% to 90%RH
Memory	(16) DDR3 1333/1600 MHz ECC RDIMM slots per node	L10 Weight	2.5":26.4 Kg ;3.5": 32.1 Kg
Storage	(12) 2.5" or 3.5" hot-plug HDD bays per system (2) 2.5" internal HDD bays for OS installation per node Note: Only SAS supported with shared storage		
Raw Capacity	Up to 48TB of internal capacity and can expand another 240TB externally with (1) Quanta MESOS M4600H disk enclosure		
PCIe Expansion Slot	<1PCIe + 1Mezz SKU> (1) PCIe G3 x8 riser slot and (1) Mezz slot per node <3PCIe SKU> (3) PCIe G3 x8 riser slots per node Note: If using internal HDDs with the HDD bracket, one PCIe slot will not be accessible		
Network	(2) Intel [®] I350 GbE RJ45 ports per node or (2) Intel [®] X540 10G Base-T RJ45 ports per node		
Node Interconnection	Intel [®] I350AM2 (SerDes x1) PLX [®] PEX 8712 PCIe Switch (in PCIe switch SKU)		
Management Port	(1) dedicated 10/100 Base-TX RJ45 management port per node		
Hardware Management	IPMI v2.0 compliant, on board "KVM over IP" support		
Integrated Graphics (BMC)	Aspeed AST2300 8MB DDR3 video memory		
Rear I/O	(2) USB 2.0 ports per node (1) VGA port per node (1) RS232 serial port per node (2) GbE or 10G Base-T RJ45 ports per node (1) 10/100 Base-T RJ45 management port per node (1) External Mini-SAS port per node		



3 Years Warranty as Standard

Buy with confidence knowing all Broadberry CyberServe rack servers are backed up by our 3 year warranty, with further warranty upgrade options available.



Up to Dual Xeon Processors

Designed for optimal performance, the CyberStore WSS range can be configured with a single Xeon E3 processor or on larger units up to 2x Xeon E5 processors.



Daisy Chain CyberStore Appliances

Increase the storage capacity of your CyberStore WSS storage appliance by daisy-chaining additional CyberStore JBOD units, giving up to 1 Petabyte of storage.



With IPMI Remote Management

All Broadberry CyberStore WSS appliances include built-in iPMI functionality, enabling complete control and management of your server through IP.



Built with Quality Components

All components in the Broadberry CyberStore WSS range are sourced from leading manufacturers who take reliability as seriously as we do.



Built in Thin Provisioning

Expand your storage pools online as and when you need to with the CyberStore WSS' built in Thin Provisioning feature.



Windows Familiar Interface

Built on Windows Storage Server 2012 R2, the CyberStore WSS range uses the same familiar Windows interface you're used to.



Built in Data Deduplication

Reduce storage footprint by up to 70% with the CyberStore WSS' deduplication feature, removing duplicates in sets of data and referencing to a single file instead.

Windows Storage Server 2012
Hyper-V



Deduplication on Running VMs

The CyberStore WSS range can deduplicate virtual machines, greatly increasing the overall effectiveness of deduplication for VDI implementation.



Workplace Join

Workplace Join allows certificate-based authentication and single sign-on to applications and data for personal devices like iPads.



Hardware SSD Caching

The CyberStore WSS range includes a hardware-based SSD Caching option, allowing you to cache your most used data on super fast SSD's via a RAID controller.



Software Storage Tiering

Dynamically move chunks of your most used data between HDDs and super fast SSDs through Windows Storage Server for an alternative to hardware based SSD caching.



Built in File Replication Service

Windows Storage Server Work Folders works very similar to Dropbox. Install this role on your CyberStore WSS and get a fully functional secure file replication service.



Parallel Rebuild Failed Storage

If you've ever had a disk fail in a RAID array you'll know the rebuild time can take ages, especially with large disks. WSS 2012 greatly reduces this to less than 1 hour for a 3TB disk.



Network Adaptor Teaming

The CyberStore WSS range can be configured with up to 16 network adaptors for impressive network performance and availability.



Storage Servers

Configure From £1,078

We offer a range of NAS, DAS, iSCSI SAN and Custom Storage Servers designed to grow with your storage needs.



Rackmount Servers

Configure From £353

Introducing the CyberServe range of rackmount servers, voted the best buy available in 2011, 2012 and 2013 by the most influential IT brand in the UK.



Workstations

Configure From £198

The Broadberry CyberStation boasts a complete range that will suit many high end graphics applications such as CAD and Scientific applications.

Trusted by the Worlds Biggest Brands

We have established ourselves as one of the biggest storage providers in the UK, and since 1989 supplied our server and storage solutions to the world's biggest brands. Our customers include:

