

StorageCraft OneBlox 5210

All-flash Scale-Out Storage Built on Revolutionary Object-Based Storage



Introduction

StorageCraft is reimagining storage with OneBlox, the industry's first all-flash-scale-out object-based appliance that is accessible with NFS and SMB network protocols for organizations of all sizes optimized for virtual environments. Now, companies can utilize this affordable cloud-managed solution with leading edge enterprise features, including inline deduplication, compression, continuous data protection, multi-site remote replication, and zero-configuration storage expansion.

StorageCraft's patent pending architecture solves businesses' common storage pain points: complicated installation, cumbersome storage management, lack of data security and forklift upgrades. Without the shackles of a legacy storage architecture, StorageCraft's clean-sheet approach combines the OneBlox appliance with OneSystem, an elegant multi-tenant cloud-based management service.

Product Highlights

Powerful

The scale-out object-based file system enables non-disruptive capacity and performance expansion with zero configuration. Additionally, its inline deduplication and compression for primary storage maximizes storage utilization without impacting performance.

Simple

IT organizations can simply, yet powerfully, manage on-premises OneBlox in any location from any browser. OneSystem consistently provides real-time storage and health monitoring by comprehensively understanding the state of every OneBlox, installed disk drive, network, remotely replicated storage and more.

Protected

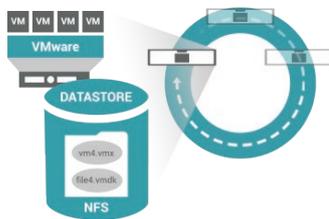
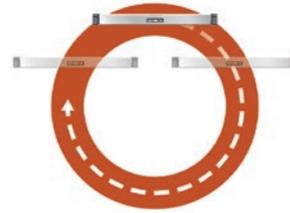
The always-on continuous data protection (CDP) capability and multi-site remote replication, can be defined on per-share basis, enables fine-grained data recovery. Its real-time replication enables protection against multiple drive failures, ransomware, and disaster recovery.

Product Features

StorageCraft's scale-out, object-based storage appliance solves businesses' common storage pain points: complex installation, cumbersome management, limited capacity and forklift upgrades. StorageCraft's clean sheet approach combines the SMB/NFS accessible OneBlox appliance with OneSystem, an elegant multi-tenant cloud-based (or on-prem) management service.

Scale-Out Architecture

OneBlox employs a seamless scale-out Ring architecture supporting multiple OneBlox appliances presenting a single global file system. A Ring may consist of one or multiple OneBlox, scaling from a few terabytes to nearly 280TBs of raw flash storage capacity. As business storage requirements change, OneBlox is extremely agile; simply add any number of drives, at any time, and in any capacity granularity to meet your storage requirements. OneBlox simply grows the global storage pool with zero configuration and no application downtime.



Scale-Out Storage for Virtual Environments

OneBlox uniquely supports VMware environments by enabling virtual machines to utilize scale-out NFS datastores. Consolidate multiple NFS datastores in a single OneBlox Ring and scale to multiple PBs with OneBlox's advanced data reduction. Need high performance? OneBlox 5210 is an all-flash array for consolidating performance-hungry virtual machines, delivering 50,000 IOPS. Need more capacity? Simply scale-out OneBlox by adding drives or OneBlox and the virtual servers instantly see additional storage capacity—with zero configuration.

Dynamic Growth

Bring your own SSDs. No RAID, no LUNs, no volumes. OneBlox delivers the flexibility for organizations to mix-and-match drive types (SATA, SAS) and capacity (one to four terabytes) within the same OneBlox and within a OneBlox Ring. Purchase exactly the capacity your organization needs at the beginning and then in the future, increase capacity by mixing and matching any number of additional drives. OneBlox automatically pools the new storage within the existing global storage pool. No disruption to applications or users. No configuration settings to complete. No mouse clicks. No command line entries. No storage PhD required.

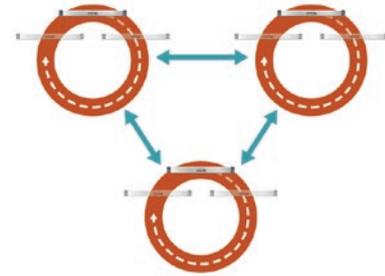


Agile and Affordable

OneBlox's agility to add storage at any time comes with the additional benefit of delivering significant cost savings. StorageCraft's bring-your-own-drive philosophy treats drives as a commodity. Accordingly, every organization can purchase drives at retail prices and use up to 3.8TB SSDs within OneBlox. Gartner Group's research indicates disk and flash drives can account for up to 50% of the storage systems hardware costs. Avoiding the 10x markup from legacy storage vendors quickly results in significant cost savings compared to other storage solutions. Combined with OneBlox's powerful inline deduplication and compression, storage utilization is maximized and waste is minimized.

Flexible Multi-Site Replication

Implement disaster recovery with asynchronous multi-site replication. Employ a flexible one-to-one, one-to-many, many-to-one bi-directional replication architecture with multiple OneBlox rings. Implement exactly the configuration that suits the business needs of geographically distributed environments. Only deduplicated and compressed data is replicated, ensuring the transfer is very bandwidth efficient. Other vendors require the source and target storage infrastructure to be identical. StorageCraft does not impose any such restrictions for the utmost flexibility.



Zero Configuration

Ease of use is not an afterthought with OneBlox. OneBlox is easily can be installed in less than 15 minutes, provisioned and available to serve data with zero configuration. Simply insert at least two drives, plug in Ethernet, and power it on. It's that easy. Need to add more storage? Simply add drives and the capacity is added to the same global storage pool. Need to add availability or performance? With no interruption to applications or users, additional OneBlox nodes can be added and automatically configured, enabling organizations non-disruptive scalability with their business.

Always-On Information

StorageCraft's distributed file system is built on top of a fine-grained content-addressable distributed object store with a hashed ring architecture that has small but variable-sized immutable objects as its foundation. This underlying technology allows OneBlox Ring to fully protect the stored information without legacy RAID technologies. OneBlox transparently replicates and intelligently distributes the data objects across multiple drives within a failure domain and protects against drive or OneBlox failures. In case of failure, data objects are redistributed and rebalanced to ensure full protection.



OneBlox 5210 Technical Specifications

System Input Requirements	100-240 V AC, 10.7 – 4.2A max
Power Supply	Hot-pluggable, redundant 1,100W power supply units
Weight (empty, no disks)	37.5 lb. (17 kg)
Space Requirements (W x H x D)	1U; 18.99 x 1.68 x 29.72 in. (482.4 x 42.8 x 755.1 mm)
Drive Bays	10 x 2.5" drive slots, hot swappable
Drive Types	2.5" SATA II and III (3 Gb/s and 6 Gb/s) / 2.5" SAS (6 Gb/s and 12 Gb/s)
Max Raw Capacity	38 TB (10 SSDs rated at 3.8 TB each)
Operating Temperature and Humidity	10° C to 45° C (50° F to 113° F); 8% to 90% relative humidity, non-condensing
Operating Acoustic Noise	43 dBA sound pressure (LpA) at normal operating conditions (at 22° C)
Cooling	Eight variable-speed fans
File Service Protocols	SMB (1.0, 2.0, 2.1, 3.0); NFS v3
Gigabit Ethernet Ports	4 x 10GbE BASE-T and 2 x 1GbE BASE-T OR 4 x 10GbE SFP+ and 2 x 1GbE BASE-T
USB Ports	2 x miniUSB; 2 x USB 3.0
Remote Lights-Out Management	iDRAC via 1GbE port
Electromagnetic Emission and Compatibility	FCC Class A, EN 60950-1 or EMC, CISPR 22/CISPR 24 and EN 55022/55024, EU, India, Ukraine RoHS Directive 2011/65/EU, EU REACH

