

## iBrick™ 2000 All flash & Hybrid Storage Appliance

iBrick™ 2000 (IB2000) is an advanced storage subsystem for organizations of any size with new levels of performance, reliability, availability, and scalability. Suitable for heterogeneous environments, virtualization, various applications, private Clouds, and data centers.

Unified block (iSCSI) and file (SMB, NFS) storage server with enterprise features such as thin provisioning, de-duplication and scale-out. Active-active multi controllers and data paths provide no single point of failure to eliminate downtimes and give you the peace of mind that you expect from your storage.

Simple, familiar Windows Storage Server 2016 user interface and server management tools including Active Directory, PowerShell and System Center for simple deployment and integration into existing IT infrastructures.

### • Unprecedented Performance

- Highest performing enterprise HDD/SSDs/NVMe SSDs
- Powerful hardware
- High speed interfaces
- SMB-Direct, SMB multi-channel (SMB3)
- NIC Teaming, large I/O
- RDMA for low latency, high throughput

### • Continuous Availability

- Fully redundant, two separate controllers
- Hot swap RAID protected drives
- Redundant interfaces
- Redundant hot-swap power supplies, fans

### • Flexible Unified Storage

- Block: iSCSI
- File: SMB-2, 2.1, 3.0, NFS-v2, v3, 4.1

### • Data Reduction

- De-duplication reduces data size
- Thin provisioning eliminates over allocation
- Branch cache reduces WAN traffic

### • Scalable

- Scale out for additional capacity/performance
- Expand each iBrick up to 4 boxes with SAS connected JBODs
- Scale to 16 boxes, each with 24 drives

### • Snapshot with VSS Support

### • On-the-Fly Volume or Storage Expansion

### • Heterogeneous Client Support





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### Specifications

<b>Controller Specs</b>	Each iBrick comes with two controllers - each controller unit comes with: <ul style="list-style-type: none"> <li>- Two Xeon E5-2600 V3 processors</li> <li>- 128 GB high-speed memory</li> <li>- Dual hot-swap SSD mirrored boot drives</li> <li>- 2x 10Gbit, 40Gbit, 100Gbit SFP+ Ethernet per controller</li> <li>- 1x RJ45 1Gbit management port</li> <li>- 3x PCIe Gen 3, x8 Expansion slots</li> <li>- Additional ports: 2x USB, 1x VGA, 1x Serial</li> <li>- Expansion ports to connect JBODs: 4x SFF 8644 Mini-SAS HD ports</li> </ul>
<b>Storage / Capacities</b>	12 Tera Byte to Multi-Peta Bytes 24x Hot swap 2.5" drives per appliance RAID-0, Mirror (RAID-1), Parity (RAID-5, RAID-6) Enterprise HDDs/SSDs /NVMe SSDs
<b>Performance Features</b>	Highest performing enterprise SSDs, HDDs , & NVMe SSDs Powerful hardware High-speed interfaces SMB-Direct, SMB Multi-channel NIC Teaming, Large I/O RDMA for low latency, high throughput
<b>Continuous Availability</b>	Fully redundant Never lose access Dual active-active HA cluster Hot swap RAID protected drives Redundant interfaces Redundant hot-swap power supplies, fans
<b>Interfaces</b>	Block Level Interface: iSCSI File Level Interface: SMB-2, 2.1, 3.0, NFS-v2, v3, 4.1
<b>Advanced Storage Features</b>	De-duplication reduces data size Thin provisioning eliminates over allocation Snapshot with VSS support On-the-fly volume or storage expansion

## Specifications (continue)

<b>Dimensions, each box (HxWxD):</b>	2U Rackmount: 3.45x19x33.5"
<b>Weight, each box, fully populated:</b>	66.7 lbs
<b>Power, each box, fully populated:</b>	100V/240V, 50/60Hz      Idle, 417 Watts,    Running 603 Watts
<b>Environmental:</b>	Operating temperature: 41o F to 95o F Operating relative Humidity: 20% to 80% RH Non-operating relative Humidity: 20% to 95% RH Storage Temperature (with package) Range: -40o F to 158o F Storage Humidity (with package) Range: 10% to 90%

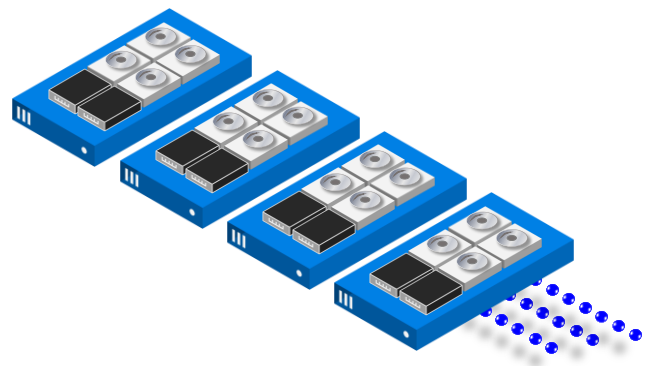
## Use Case

## Benefits

<b>Transactional Databases</b>	Improved performance, reduced query latency; virtualization/consolidation enabler
<b>Server Virtualization / Cloud</b>	Increased consolidation factors and per-server performance
<b>VDI</b>	Reduced infrastructure cost (\$/VDI); boot storm elimination
<b>BI / DW / Analytics (including Hadoop, NoSQL, "in memory" analytics)</b>	Decreased query response time; increased concurrency and throughput
<b>Media</b>	Real-time access to high demand shared assets
<b>High Performance Computing</b>	Accelerating a wide range of I/O-intensive HPC applications

## Simple Scalability and expansion

- ✓ Shared Nothing architecture
- ✓ From 2 – 16 servers, and up to over 400 drives
- ✓ Over 3 PB of raw storage per cluster
- ✓ Add servers to scale out
- ✓ Add drives to scale up
- ✓ Pool automatically absorbs new drives
- ✓ Better storage efficiency and performance at larger scale
- ✓ Converged design greatly simplifies procurement
- ✓ No special hardware or cables – just Ethernet
- ✓ No need for shared storage



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