

# UNIFIED DATA STORAGE FOR MISSION CRITICAL APPLICATIONS



## OVERVIEW

The IceWEB 6000 Unified Data Storage System is a highly redundant dual controller, providing high availability for mission critical environments leveraging the cost savings and storage optimization benefits from storage virtualization, snapshots and thin provisioning. A highly scalable and nimble storage system, IceWEB 6000 Unified Storage Systems configurations scale to 960TB with affordable disk shelves, saving you the expense of adding controllers to just add capacity. The IceWEB 6000 supports enterprise SAS drives.

## UNIFIED STORAGE MADE SIMPLE

The IceWEB 6000 Unified Storage System simplifies management by providing an all-inclusive data storage system that lets you store both block and file data - Microsoft Exchange, SQL Server and Oracle databases, virtualized environments, scanned images, files, video, pictures, graphics, and voice -- all on one enterprise-class data storage platform.

## COMPLETE PROTECTION AND RELIABILITY

Rest assured that your mission critical data is safe with all of the data protection and reliability features you'd expect in an enterprise class appliance --

- Ensure high levels of data integrity and protection at all times with IceWEB unified storage appliances
- Hot swappable hard drives with preemptive drive failure notification
- Built-in support for single parity, double parity, and triple parity RAID protection
- Automatic error correction ensures data integrity
- Zero-impact, zero reservation snapshots reduce RPO and RTO for near-zero recovery time and data loss
- Thin provisioning greatly increases utilization
- Flexible replication services (local or remote, bi-directional, real-time or scheduled)
- Mirror HA



## POWERFUL STORAGE MANAGEMENT CAPABILITIES



Driving the IceWEB 6000's powerful features is IceWEB's proprietary IceSTORM™ operating system, providing all of the management and application software capabilities needed to support today's cloud and virtual computing environments. The intuitive IceSTORM interface simplifies the use of its sophisticated storage management capabilities, and includes a full complement of enterprise level storage optimization features at a price that's affordable for any IT budget —

- **Thin Provisioning:** Efficient allocation of dynamic disk with option to provision iSCSI, NFS, CIFS, or FC to a new environment
- **Storage Pooling:** Shared pool supporting multiple tiers of storage
- **Active Directory & LDAP Authentication**
- **Clones:** Deliver capacity savings of up to 90% with no performance impact, for testing and development
- **In Line Data Compression:** Ranges from 1.2 to 3.8x compression; skips dense blocks to minimize IO load
- **Volume Level Inline Deduplication:** Aggressive checksum/hash algorithm to obtain up to 90% deduplication levels
- **Snapshots:** Instantaneous, zero impact, zero capacity allocation
- **Snapshot Rollback:** Instantaneous
- **Replication:** Asynchronous, Synchronous and Encrypted
- **VM Integration:** VMware, Microsoft Hyper-V, Citrix XenServer

# IceWEB 6000 TECHNICAL SPECIFICATIONS

## HARDWARE

- Standard System Memory: Up to 96 GB
- Networking: 6X gigabit Ethernet (GBE) per controller (12 total)
- Options: (4) 10 Gigabit Ethernet Ports, 4 or 8 8Gb Fibre Channel Ports
- Storage Controller: Two - Redundant Hot-Swap

## STORAGE

- Capacity: 16 hot-swap drive bay
- Standard Maximum Capacity: 960 TB
- Disc Capacity: 600 GB 15K 6G SAS; 1, 2, or 3 TB 7200 RPM 6G SAS; 480GB or 960GB Solid State Drives (SSD)
- Form Factor: 3U
- Std Maximum Expansion Disk Shelves: 6
- File System: IceSTORM™ OS



## SOFTWARE

- File System Protocols: NFSv2, NFSv3, NFSv4, CIFS, FTP, HTTP, WebDAV, rsync, NDMP
- Block Protocols (Optional): iSCSI, Fibre Channel and FCOE
- Storage Pools: IceCAP™ shared pool supporting multiple classes of storage
- RAID Levels: Striping, Mirroring, Single Parity RAID-5, Dual Parity RAID-6 and RAID-6+1 Triple Parity (1, 5, 6, TP, 10, 50, 60)
- Data Compression: Integrated
- Data Deduplication: Integrated, Block-Level, Inline
- Data Integrity: Metadata and user data checksums
- Snapshots: Zero Impact, Zero Overhead, Zero Capacity Reservation
- Snapshots Rollback: Instantaneous
- Thin Provisioning: Integrated
- Storage Quotas: File system, Directory
- Replication (Optional): Asynchronous (Synchronous)

## NETWORK SERVICES

- System Management: Integrated; HTTP or HTTPS-based, Remotely Accessible and Manageable
- Directory Services: Active Directory, NIS, LDAP

## POWER

- AC Input: Auto-switching, 100 - 240V Auto-Range, 50-60 Hz
- Input Current: 11.5 - 5.5A Max
- Power Supply: 2x Redundant Hot-Swap 1200W High-Efficiency
- Power Supply Efficiency: 80 PLUS Gold Certified

## COOLING

- Fans: Redundant Hot-Swap

## PHYSICAL

- Dimensions: (D x W x H)  
25.5" D x 17.2" W x 5.2" H or  
648mm D x 437mm W x 132mm H
- Weight:  
75 lbs / 34.02 kg  
(without disk drives)



Expandable  
to 960TB

## ENVIRONMENT

- Temperature Operating: 10C to 35C (50F to 95F)
- Humidity Operating: 8% to 90% (non-condensing)
- Altitude: Operating: -16m to 3048m (-50ft to 10,000ft)
- Shock: Maximum: One shock pulse in positive Z-axis of 41g for up to 2ms operating
- Vibration: Maximum: 0.26 Grms at 5-350Hz operating

## REGULATORY APPROVALS

- Emissions: FCC Class A, EN 55022 Class A, EN 61000-3-2/-3-3, CISPR22 Class A
- Safety: CSA/EN/IEC/UL 60950-1 Compliant, UL or CSA Listed (USA & Canada, CE Marking (Europe))

## OPTIONAL FEATURES

- 4 or 8 port 10Gb Ethernet, FC and FCoE

## CALL TOLL-FREE FOR A LIVE DEMONSTRATION

For a live demonstration of IceWEB's IceSTORM management console, email [sales@iceweb.com](mailto:sales@iceweb.com) or call toll-free 1-800-465-4637.

IceWEB manufactures award-winning, high performance unified data storage appliances with enterprise storage management capabilities at a fraction of the price of traditional providers. Through thin provisioning, target deduplication and inline compression, IceWEB's unified storage arrays enable standardization, consolidation and optimized storage utilization for virtual and cloud environments, saving up to 90% of storage costs, while reducing space, power and cooling requirements and simplifying storage management.



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