

# OmniLib/A3



**PowerFile®**  
ACTIVATE YOUR ARCHIVES

## Blu-ray Network-Attached Archival Storage Solution



The OmniLib/A3 Active Archive Appliance (A3) is ideal for medium and large organizations that currently leverage Network Attached Storage (NAS) for primary and/or secondary storage and are struggling to find a cost effective, long term archival solution for storing growing volumes of fixed digital content.

The A3 combines the powerful ArcOS™ management software with patent-pending hardware to provide the online access and search capabilities of disk at the cost of traditional offline archives all while offering unmatched data integrity to ensure your valuable digital assets are protected. Unmatched Price/Longevity

Primary storage systems are optimized for performance and ideal for environments with dynamic content and frequent transactions. Disk-based nearline storage systems offer attractive price/performance for less frequently accessed data, but do not address high operational costs over time. The A3 was designed from the ground up for less frequently accessed fixed content and therefore offers nearline access to information at a total cost of ownership (TCO) that is 1/10th that of a comparable disk-based system.

### Data Center Density

Efficient use of data center floor space is just as important as low power and cooling requirements. The A3 makes sure your company utilizes every square foot of your valuable data center by delivering up to 280TB per standard 42U rack (Enterprise Edition).

### Nothing Proprietary

Many popular disk-based archive solutions require API integration and store data in proprietary formats, making it difficult and expensive to migrate data when the need arises. The A3 leverages standard network protocols along with standard data and media formats to help you avoid costly vendor lock-in and ensure long-term data portability and accessibility.

### Best-in-Class Data Integrity

In addition to extensive qualification of "archive-grade" media, the A3's patented Extended Verification And Self-healing Technology (EVASt™) creates a storage system that is 100 times more reliable than enterprise tape or dual parity RAID 6.

### Industry-Leading Energy Efficiency

With 97% of data centers expected to be out of power by 2011 and storage consuming almost 40% of data center power<sup>3</sup>, keeping information online and accessible is becoming an increasingly difficult challenge. By delivering over 350TB per Kilowatt and consuming less than 300W per standard 42U rack<sup>4</sup>, the A3 uses 5% of the power required for disk-based solutions and 25% of MAID solutions<sup>5</sup>, making it easily the most energy efficient storage solution in the industry.

### Certified Technology

The A3 has been certified with industry-leading Information Lifecycle Management (ILM), Enterprise Content Management (ECM), and Email Archive applications including Arkivio® auto-stor, EMC® DiskXtender™, Symantec® Enterprise Vault™, and CommVault® Data Archiver to ensure seamless integration into your existing infrastructure.

## KEY FEATURES

### EVAST™ DATA INTEGRITY SCHEME

Patented error correction improves data integrity by six orders of magnitude (10<sup>6</sup>) for better reliability than RAID 6

### HIGH DENSITY / LOW ENERGY USAGE

Fits up to 70TB and consumes less than 300 watts per 42U rack

### ARCHIVE FACILITATOR™ AUTOMATION TOOL

Optional, policy-based discovery, classification, and migration tool for automated archiving of fixed content

### COMPRESSION

Optional compression technology maximizes rack density

### STANDARD NETWORK PROTOCOLS

Supports CIFS, NFS, and HTTP protocols - ideal for mixed environments

### SCALABLE ARCHITECTURE

Systems scale incrementally from 4TB to 280TB<sup>1</sup>

### VIRTUALIZED STORAGE

Discs are virtualized into volumes to ease management

### VOLUME MIRRORING

Creates a second copy of data for disaster recovery

### TOUCHLESS DR™ WAN REPLICATION

Optional active-active asynchronous remote replication for automated, offsite disaster recovery



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## Hardware Specifications

<b>Physical Dimensions</b>	Width (in/cm): 17.2 / 43.7    Height (in/cm): 3.5 / 8.9 (2U)    Depth (in/cm): 25.5 / 64.8    Weight (lb/kg): 52 / 23.6
<b>Agency Certifications</b>	UL, cUL, CE, FCC Class A
<b>Processor</b>	Single 2.0GHz Dual-Core AMD Opteron Processor with 1000MHz System Bus / Dual Opteron Capable Motherboard
<b>ECC Memory</b>	4GB DDR2 ECC SDRAM Running at 667MHz / 16 DIMM Sockets Supporting a Maximum of 64GB
<b>Read Cache</b>	Option 1: Four (4) 750GB Hot-Swappable Serial-ATA Drives, Preconfigured RAID 5 Array, Upgrade Kits Available up to 6TB Option 2: Eight (8) 1TB Hot-Swappable Serial-ATA Drives, Preconfigured RAID 5 Array
<b>Write Cache</b>	Four (4) 500GB Hot-Swappable Serial-ATA Drives, Preconfigured RAID 10 Array
<b>Hardware RAID</b>	Controller: 3ware 9650SE-8LPML Eight (8) Port PCI-e to SATA2 RAID Controller / 3ware BBU-Module-03 Battery Backup Unit Supported RAID Types: 5, 6
<b>Network Interface</b>	Dual Gigabit Ethernet Ports (auto-sensing 10/100/1000) / Support for Stand-Alone, Failover, and Load Balancing
<b>Library Interface</b>	Twelve (12) 800Mb/s Ports
<b>PCI Expansion Slots</b>	Two (2) x8 PCI-e Slots / Two (2) 64 bit 133/100MHz PCI-X Slots / Two (2) 64 bit 100MHz PCI-X Slots
<b>Ingestion Peak   Sustained</b>	60 MB/sec   25 MB/sec
<b>Power</b>	Power Supplies: Dual Redundant 800W (Hot-swappable)    Power Rating: 100-240VAC, 50-60Hz (Auto-sensing), 10-4 Amp Power Consumption: 243-275W Typical    Heat Dissipation: 829-939 BTU/hr Typical
<b>Cooling</b>	Three (3) Redundant, Hot-Swappable Fans
<b>Operating Environmental Limits</b>	Altitude (ft/m): 0-6,998 / 0-2,133    Temperature (F/C): 25-104 / 5-40    Humidity: 20-80%, non-condensing Shock: 5g 10ms 1/2 Sine    Vibration: Random 0.21g 5-500Hz
<b>Non-operating Environmental Limits</b>	Altitude (ft/m): 0-40,000 / -100-3,048    Shock: 30g 10ms 1/2 Sine    Vibration: Random 1.04g 20-200Hz
<b>Warranty</b>	Standard: 1-yr Limited H/W Warranty    Optional: 1-yr, 3-yr, or 5-yr PowerCare™ Silver and Gold Offerings
<b>Physical Dimensions</b>	Width (in/cm): 17 / 43.2    Height (in/cm): 8.75 / 22.23 (5U)    Depth (in/cm): 20 / 50.8    Weight (lb/kg): 35 / 15.9
<b>Drives</b>	Two (2) Redundant, Field-Replaceable, Dual-Layer Blu-ray Recorders
<b>Capacity</b>	Number of Discs: 200    Max Raw Capacity: 10TB    Max Compressed Capacity: 20TB
<b>Environmental Limits</b>	Operating Temperature (F/C): 41-104 / 5-40    Storage Temperature (F/C): -22-140 / -30-60 Operating Humidity, Non Condensing: 10-80%    Storage Humidity, Non Condensing: 5-90%
<b>Power</b>	Voltage (auto-sensing): 110-240 VAC    Frequency: 50/60 Hz    Consumption: 28W (peak) / 8W (RMS) Heat Dissipation: 95.5 BTU/hr (peak) / 27.3 BTU/hr (RMS)
<b>Predicted Reliability</b>	MTBF (swaps): 1,000,000
<b>Agency Certifications</b>	Safety: UL/cUL, EN 60950, CB, CE    Emission: CISPR 22 Class A    Immunity: EN 50082-1 (1992)
<b>Host Interface</b>	Number of Ports: 2    Port Type: 6-Pin 400 Mbps
<b>Warranty</b>	Standard: 1-yr Limited H/W Warranty    Optional: 1-yr, 3-yr, or 5-yr PowerCare™ Silver and Gold Offerings
<b>Network Transfer Protocols</b>	TCP / IP
<b>Network File Protocols</b>	Microsoft Networks (CIFS), UNIX (NFS v3), Internet (HTTP)
<b>Management Client</b>	Windows: 2000, 2003, XP    Linux: Red Hat, SuSE
<b>Data Client</b>	Windows: NT, 2000, 2003, XP    UNIX: Solaris, HP-UX, AIX    Linux: Red Hat, SuSE    Macintosh: OS X (no resource forks)
<b>IP Address Assignment</b>	Supports DHCP for Automatic Assignment / Supports Static Assignment
<b>Network Security</b>	Microsoft Active Directory Service (ADS), Kerberos Authentication v5, Lightweight Directory Access Protocol (Client), Windows NT Domain (Member Server), UNIX Network Information Service (NIS) Support, Local Users and Groups, Secure Sockets Layer (SSL), Multiple Administrator Support
<b>System Management</b>	Browser-based Console for Remote Administration, Environmental Monitoring, Email Notification Alerts, SNMP (Host Resource MIB)
<b>Volume Management</b>	Supports up to 60 Permanent Storage Spaces (PSS), Retention Period Management (Share Level), System Configuration Backup and Image Recovery

