



Active Archive Appliance Enterprise Edition

Datasheet



Enterprise Density, Performance, and Scalability

Hybrid Storage Platform

An intelligent file system integrates multiple storage technologies – providing the ideal blend of performance and economy

Standard Network Protocols

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

Scalable Architecture

Systems scale from 10TB to 280TB per standard 42U rack and can be fronted by up to 68TB of high performance cache

Flexible Disaster Recovery

Volumes can be replicated locally or over a Wide Area Network (WAN) with the optional Touchless DR™ feature

EVAST™ Data Integrity Scheme

Patented error correction improves data integrity by six orders of magnitude (10⁶) for better reliability than RAID 6

Low Energy Usage

Consumes as little as 300 Watts per standard 42U rack

Archive Facilitator™

Automation Tool

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

Adaptive Data Reduction™

(ADR)

Optional, adaptive, inline data reduction software reduces data footprint up to 7x to maximize rack density

The Active Archive Appliance Enterprise Edition (A3 EE) delivers an unparalleled combination of density, performance and energy efficiency to medium and large organizations. This content-aware, hybrid storage platform incorporates ground-breaking features and enterprise scalability – making it an ideal choice for anyone struggling to find a cost effective, long-term storage solution for growing volumes of persistent data.

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.

Industry-Leading Energy Efficiency

By delivering over 700TB per Kilowatt and consuming as little as 300W per standard 42U rack, the A3 uses less than 5% of the power required for disk-based solutions and 25% of MAID solutions making it easily the most energy efficient storage solution in the industry.

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.

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 accessibility and portability.

Best-in-Class Data Integrity

In addition to extensive qualification of archive-grade media, PowerFile has developed its patented Extended Verification And Self-healing Technology (EVAST™) to create a storage system that is 100 times more reliable than enterprise tape or dual parity RAID 6.

Certified Technology

The A3 has been certified with industry-leading Classification, File Virtualization, Information Lifecycle Management (ILM), Enterprise Content Management (ECM), and Email Archive applications including Arkivio® auto-stor, CommVault® Data Archiver, EMC® DiskXtender™, F5 Acopia® ARX® series, Kazeon® Information Server, and Symantec® Enterprise Vault™ to ensure seamless integration into your existing infrastructure. Please visit www.powerfile.com for a comprehensive list of application support.

ARCHIVE ENGINE HARDWARE SPECIFICATIONS

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|---|---|
| Physical Dimensions | 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 |
| Agency Certifications | UL, cUL, CE, FCC Class A |
| Processor | Single 2.0GHz Dual-Core AMD Opteron Processor with 1000MHz System Bus / Dual Opteron Capable Motherboard |
| ECC Memory | 4GB DDR2 ECC SDRAM Running at 667MHz / 16 DIMM Sockets Supporting a Maximum of 64GB |
| Read/Write Cache | 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 |
| Imaging Cache | Four (4) 500GB Hot-Swappable Serial-ATA Drives, Preconfigured RAID 10 Array |
| Hardware RAID | 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 |
| Network Interface | Dual Gigabit Ethernet Ports (auto-sensing 10/100/1000) / Support for Stand-Alone, Failover, and Load Balancing |
| Library Interface | Nine (9) 800Mb/s Ports |
| PCI Expansion Slots | Two (2) x8 PCI-e Slots / Two (2) 64 bit 133/100MHz PCI-X Slots / Two (2) 64 bit 100MHz PCI-X Slots |
| Ingestion Peak Sustained | 60 MB/sec 25 MB/sec |
| Power | 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 |
| Cooling | Three (3) Redundant, Hot-Swappable Fans |
| Operating Environmental Limits | 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 |
| Non-operating Environmental Limits | Altitude (ft/m): 0-40,000 / -100-3,048 Shock: 30g 10ms 1/2 Sine Vibration: Random 1.04g 20-200Hz |
| Warranty | Standard: 1-yr Limited H/W Warranty Optional: 1-yr, 3-yr, or 5-yr PowerCare™ Silver and Gold Offerings |

MEDIA LIBRARY HARDWARE SPECIFICATIONS

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|------------------------------|--|
| Physical Dimensions | 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 |
| Drives | Two (2) Redundant, Field-Replaceable, Dual-Layer Blu-ray Recorders |
| Capacity | Number of Discs: 200 Raw Capacity: 10TB |
| Environmental Limits | 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% |
| Power | 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) |
| Predicted Reliability | MTBF (swaps): 1,000,000 |
| Agency Certifications | Safety: UL/cUL, EN 60950, CB, CE Emission: CISPR 22 Class A Immunity: EN 50082-1 (1992) |
| Host Interface | Number of Ports: 2 Port Type: 6-Pin 400 Mbps |
| Warranty | Standard: 1-yr Limited H/W Warranty Optional: 1-yr, 3-yr, or 5-yr PowerCare™ Silver and Gold Offerings |

ARCOS MANAGEMENT SOFTWARE SPECIFICATIONS

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|-----------------------------------|---|
| Network Transfer Protocols | TCP / IP |
| Network File Protocols | Microsoft Networks (CIFS), UNIX (NFS v3), Internet (HTTP) |
| Management Client | Windows: 2000, 2003, XP Linux: Red Hat, SuSE |
| Data Client | Windows: NT, 2000, 2003, XP UNIX: Solaris, HP-UX, AIX Linux: Red Hat, SuSE Macintosh: OS X (no resource forks) |
| IP Address Assignment | Supports DHCP for Automatic Assignment / Supports Static Assignment |
| Network Security | 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 |
| System Management | Browser-based Console for Remote Administration, Environmental Monitoring, Email Notification Alerts, SNMP (Host Resource MIB) |
| Volume Management | Supports up to 14 Online Permanent Storage Spaces (PSS), Retention Period Management (Share Level), System Configuration Backup and Image Recovery |