



Permanent Storage Appliance

Datasheet



Enterprise Density, Performance, and Scalability

The Permanent Storage Appliance (PSA) is an affordable, easy-to-use, hybrid storage solution for dedicated Windows® environments. It is a fully integrated appliance that includes all the components you need for storing fixed content easily and cost-effectively.

CIFS Protocol

Powered by Microsoft Windows Storage Server 2003 - ideal for Windows environments

Scalable Architecture

Volumes scale incrementally from 4TB to 120TB

Dynamic Cache

Can be configured from 1TB to 6TB depending on performance requirements

Virtualized Storage

Discs are virtualized into volumes to ease management

Individual Disc Management

Discs and their contents can be managed individually to comply with regulations

Disc/Library Mirroring

Creates a second copy for disaster recovery

Disc Spanning

Files can span across multiple discs, allowing files of any size to be written

Designed for Fixed Content

Based on the concept of active archiving, the PSA is a compelling alternative to current data-storage solutions that are designed for storing either dynamic content or backup data, but not for valuable information meant to be kept in its original form and easily accessible. PowerFile's PSA is designed for the specific archiving requirements of high-value fixed content.

Ideal for Long Term Storage

Powerful storage management software lets you combine multiple media libraries into a single, large volume. Policy-based management controls the migration of data between the media libraries and high performance cache, and advanced features such as immutability (WORM) and media/library replication ensure data integrity and availability.

Systems scale from 4TB to 120TB and hot-swappable, redundant components deliver high availability, increased reliability, and field serviceability. For seamless integration into existing infrastructures, the PSA is powered by Microsoft® Windows® Storage Server 2003.

The PSA also delivers key hybrid features including high availability, standard access protocols and media types, industry leading energy efficiency, unparalleled longevity, and flexible data protection.

A Turnkey Appliance

The Permanent Storage Appliance is easy-to-install, non-disruptive, and comes with all of the components required for storing high-value fixed content including:

- Archive engine
- Patented media library
- Policy manager software
- Virtualized back end storage
- Standard network access
- Browser based management

Because the PSA presents itself as a standard network share, it works with existing Information Lifecycle Management (ILM) tools without disrupting your day-to-day operations. The PSA is designed as a turnkey appliance and can be set up in less than 30 minutes. Lastly, the PSA scales in manageable increments of 10TB to easily grow with your archiving needs.

ARCHIVE ENGINE HARDWARE SPECIFICATIONS

Physical Dimensions	Width (in/cm): 17.5 / 44.4 Height (in/cm): 3.5 / 8.8 (2U) Depth (in/cm): 24.6 / 62.5 Weight (lb/kg): 60.5 / 27.5
Agency Certifications	UL, cUL, CE, FCC Class A
Processor	Single 2.8GHz Intel Xeon Processor with 800MHz FSB / Dual Xeon Capable Motherboard
ECC Memory	1GB PC3200 DDR SDRAM Running at 333MHz / 8 DIMM Sockets Supporting a Maximum of 16GB
Drive Configuration	Four (4) 500GB Hot-swappable Serial-ATA Drives (Base System Default), Preconfigured RAID 5 Array, Upgrade Kits Available up to 6TB
Hardware RAID	Broadcom BC4452 Four Port SATA RAID Controller
Network Interface	Dual-Gigabit Ethernet Ports (auto-sensing 10/100/1000) / Support for Stand-Alone Failover and Load Balancing
Library Interface	Three (3) 9-Pin 800 Mbps Ports
PCI Expansion Slots	One (1) Half-height PCI-Express Slot / Two (2) Half-height PCI-X 133/100/66 MHz Slots / Two (2) Half-height PCI-X 100/66 MHz Slots / One (1) Half-height PCI-X 66 MHz Slot / One (1) Half-height PCI 32-bit/33 MHz Slot
Peak Throughput Ingestion	35 MB/sec 25 MB/sec
Power	Power Supplies: Dual, Redundant 500W (Hot-swappable) Power Rating: 100-240VAC, 50-60Hz (Auto-sensing) Power Consumption: 142W Typical Heat Dissipation: 484.5 BTU/h Typical
Cooling	Hot-swappable Fan Tray Assembly with Redundant Fans
Operating Environmental Limits	Altitude (ft/m): 0-6,998 / 0-2,133 Temperature (F/C): 25-95 / 5-35 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 or 3-yr PowerCare™ Silver and Gold Offerings

MEDIA LIBRARY HARDWARE SPECIFICATIONS

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, 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

PERMANENT STORAGE APPLIANCE SOFTWARE SPECIFICATIONS

Operating System	Microsoft Windows Storage Server 2003 std. ed.
Transport Protocols	TCP/IP
Network Protocols	Microsoft Networks (CIFS), Internet (HTTP)
Server Emulation	Microsoft Windows 2003
Supported Clients	Microsoft Windows NT/2000/2003/XP
Network Security	Microsoft Active Directory Authentication, Microsoft Domain Services, Secure Sockets Layer (SSL)
System Management	Browser-based User Interface for Remote Management, Environmental Monitoring, Email Notification Alerts
Library Management	PSA Library Manager Powered by PoINT
IP Address Assignment	Supports DHCP for Automatic Assignment of IP Address, Supports Static Assignment of IP Address