

# Storage Management System

**NETArchive**  
Datasheet

A vital component of ASTI's fully inclusive NAS based *NETArchive*® solution is the designed-in Storage Management System (SMS). Featuring the latest storage server technology from industry-leading manufacturers, the server provides the high-performance throughput and power required to support scalable data archiving operations.

The 2U server chassis fits neatly into a standard rack mount configuration along with other solution components. Designed to manage up to 802.5TB of nearline data, the SMS accelerates internal operations with a robust hardware configuration that includes up to 24TB RAID Cache, high-speed I/O communications, and *NETArchive* S-Series libraries scaling up to 18 drives.

Each SMS comes preconfigured with ASTI's Archive Management Software (AMS) designed specifically for data archiving. The easy-to-use AMS application enables the server to present itself as a standard network resource with support for CIFS, NFS, and FTP protocols. Data is automatically migrated to libraries in accordance with policies established within the AMS.

ASTI's high-powered Storage Management System has the hardware speed and functionality to support archiving solutions of any size or capacity whether small business or the largest enterprise.

## Features

- Archive Controller w/Quad Core Processors
- 10MB Internal cache memory
- SAS RAID Drives
- Select from 2-12 RAID drives
  - Up to 24TB RAID Cache (RAW)
- Hardware RAID Controller with Supercap/NAND backup
- RAID Configuration Protection
- Redundant power supplies
- High speed connectivity to library drives
  - Dual HBA 8Gb Fibre Channel for Enterprise archives
  - Dual USB 3.0 Super speed for small to medium archives
- Standard NAS interface – dual 1Gbe Ethernet ports with load balancing and failover
- Rack mount or desktop installation
- RoHS Certified
- Pre-installed full-featured Archive Management Software (Ref: AMS datasheet for details)

## Summary Overview

- Provides a high-speed, high-capacity hardware foundation for archiving large amounts of unstructured data (small, medium or enterprise archives)
- Simple installation with standard network services
- Supports incremental, non-disruptive scaling of libraries and drives
- Integrated server offers superior operational efficiency
  - Fewer devices to manage
  - Higher degree of service integration and consistency compared with multiple independent components
- Easily connects to *NETArchive* S-Series rack mount or desktop libraries
  - High speed fiber channel library connection optimizes drive/media accessibility (Enterprise connectivity)
  - Super USB (small to medium archives)
- Convenient space-efficient rackmount options



**The SMS provides the high-performance throughput and power required to support scalable data archiving operations.**

# Storage Management System

## SMS Technical Specifications

Archive Controller CPU	Quad Intel Xeon E5 3.5Ghz
Cache RAM Internal	10 MB Smart
SAS Ports	8
PCIe Bus	5 GB/s Gen 3
SSD Buffer	Qty 2
Max Mem Bandwidth	68 GB/s
Network Connectivity	Dual - 1Gbe +IPMI Bondable for Load Balancing or Failover
Redundant Power Supplies	Yes
RAID Drives (SAS)	2 TB
RAID Cache (2, 8 or 12 drive)	4-24 TB Max Raw
Configurable Global Hot Spares	Up to 2
Library to Drive Connectivity - NAS30, NAS60 (ENT SMS includes Dual FC Card)	Fibre Channel 8 Gbps
Library to Drive Connectivity - NAS10	Super USB 3.0
<b>Cables</b>	
Power Supply Cables	Qty 2, 10 foot
Ethernet Cables RJ45	Qty 2, 25 foot
Fibre Channel Cables ENT Only	Qty 2, 3mm LC

### Notes:

- Enterprise systems with more than two drives require a Fibre Channel switch for communication with library/drives. Reference field install document for cable specifications
- Fibre Channel cables are included with D77F S Series Drives (Qty 1, 3mm LC)
- See **NETArchive** rack specifications for mounting details
- SMS includes snap-in rack mount slides (all models)
- RAID expansion options are available - contact ASTI for technical details

## SMS Physical & Environmental Specifications

<b>SMS &amp; Mounting Dimensions</b>	
<b>Height</b>	3.5" 2 U standard
<b>Depth</b>	25.5" 3.0" 0.5" 1.75" 26-9/16"
<b>Width</b>	17.6" rack opening clearance 19.0"
<b>Slide Rail Posts:</b>	1-5/8" between square retractable guide posts
<b>Slide Rail Holes:</b>	#10 x 32 Thread
<b>SMS Weight</b>	
Max Config fully loaded (lbs / kgs)	56 / 25
<b>Shipping Weight</b>	
SMS (lbs / kgs)	82 / 37 total
<b>Shipping Dimensions</b>	
SMS (LxWxH) inches	36 x 26 x 15
<b>Power</b>	
Operating Voltage (auto ranging)	100 to 240 VAC (50-60Hz)
AC Current (Varies according to drives )	1.5 - 3.4 Amps
<b>Environment</b>	
<b>Operating Temperature</b>	50-90F /10-32C
<b>Humidity</b>	8% to 90% RH (non condensing) 5% to 93% RH (non condensing) 10% per hour
<b>Temperature</b>	10 to 35 °C (50 to 95 °F) 40 to 70 °C (-40 to 158 °F) 10 °C per hour
<b>Heat Dissipation (Min/Max BTU/per hour)</b>	717-1187
<b>Warranty</b>	1 year system Next Business Day

## SMS Enterprise/SMB Rackmount Models

NA-R100F-2	Qty 2, 2TB SAS RAID Drives
NA-R110F-8	Qty 8, 2TB SAS RAID Drives
NA-R100F-12	Qty 12, 2TB SAS RAID Drives

## RAID Configurations

2 Drive RAID 1		8 Drive RAID 5		8 Drive RAID 6		12 Drive RAID 5		12 Drive RAID 6	
Raw	Usable	Raw	Usable	Raw	Usable	Raw	Usable	Raw	Usable
4TB	1.86TB	16TB	8TB	16TB	6TB	24TB	16TB	24TB	14TB



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