

Archive Appliance *Elite* Enterprise NAS Scalable Storage Solution



**The upgraded
Archive Appliance Elite
integrates the solid dependability of
the existing archive appliance
and tops it with a powerful new
Storage Management System,
creating a professional data
archiving solution unsurpassed in
speed, performance,
and manageability.**

High-Performance Storage Management System (SMS)

The SMS advanced technical features enable active data to be ingested and written to UDO media four- times faster than previous generations. The high-performing SMS includes:

- Archive Controller w/Quad Core Processors
- 24TB RAID Cache
- Hardware RAID Controller w/BBU
- RAID configuration protection
- SAS Drive Connectivity
- Redundant power supplies

New!



AA Elite 638

AA Elite 438

AA Elite 164 or 238

The Archive Appliance Elite provides a completely integrated professional data archiving solution that responds to industry demands for minimized business risk, low total cost of ownership, fast and random access to data, and regulatory compliance.

The Archive Appliance Elite merges the same three core technologies developed specifically for data archiving – *only improved*: the new high-performance *Storage Management System* with RAID cache, *Archive Management Software*, and *Ultra Density Optical (UDO)*. These elements together create a single-source solution that safely and securely retains massive quantities of data over the long-term.

The Archive Appliance Elite is up and running in only a few minutes presenting as a standard TCP/IP network resource with support for CIFS, NFS, and FTP protocols. All data written to the library is cached to RAID providing faster access to active data and then committed to UDO for long-term archiving.

The highly-configurable *Archive Management Software* adapts to any industry enabling businesses to comply with the varying regulations associated with data retention. Policy-based software enables users to create multiple archive volumes resulting in a low-cost disaster recovery solution (remove media and store off-site). Advanced replication functions are available that create true redundancy between libraries.

At the heart of the Archive Appliance Elite is regulatory compliant UDO Technology. This true WORM (Write Once Read Many) media offers superior longevity making it a cornerstone for organizations that are subject to industry regulations. Fifty-year UDO media life also dramatically reduces media maintenance, decreasing the frequency of data migration, reducing costs over the life of the archive.

Enterprise Models Offer the Ultimate in Investment Protection

Storage capacity can be increased incrementally as archiving demands increase. Choose from four different models that scale to meet future archiving requirements. Add drives and slots to scale the 164 base model to the 238 within the same cabinet; add expansion bays to scale from the 238 to the 438, or the 438 to the 638.

Archive Appliance Elite Enterprise Libraries

The Archive Appliance Elite merges three core technologies: the high-performance Storage Management System with RAID cache, Archive Management Software, and Ultra Density Optical.

Features & Benefits

- **50 Year Media Life**
 - Unmatched longevity reduces frequency of data migrations & media maintenance
- **WORM Media**
 - Meets the highest regulatory standard for Compliant Record Retention
- **High-Performance RAID Cache**
 - Fast read & write access for active archive records
- **Multiple Archive Volumes**
 - Simultaneously archive data from multiple applications to dedicated media pools
- **Active Directory & ACL Support**
 - Secure integration into Windows domains & simplified administration
- **CIFS, NFS, & FTP Support**
 - Operates in heterogeneous Windows & UNIX environments
- **Automatic Second Copy**
 - Additional data protection that provides low cost disaster recovery when removed from the library & stored off site
- **Off-line Media Management**
 - Manages removed media to enable very low cost capacity scaling

Specifications	AA Elite 164	AA Elite 238	AA Elite 438	AA Elite 638
Min/Max # Slots	162/164	236/238	436/438	636/638
Backup Media Slots	2	2	2	2
Max Raw Capacity TBs	9.8	14.3	26.3	38.3
Min/Max Drives	2/6	2/6	2/6	2/6
Drive Increments	2	2	2	2
Power (W) w/Max Configuration Note: power rating is dependent on # of drives & power supplies				
Min Power Requirement (W)	395-570	395-570	395-570	395-570
Max Power Requirement (W)	445-600	445-600	445-600	445-600
Library Weight				
Max Config (lbs/kgs)	568/258	568/258	648/294	728/330
Library Dimensions				
Product (LxWxH) inches	35x28x76	35x28x76	35x34x76	35x41x76
Product (LxWxH) cm	89x71x193	89x71x193	89x87x193	89x104x193
Shipping Weight				
Library (lbs/kgs)	670/304	670/304	642/291	614/279
SMS (lbs/kgs)	187/85	187/85	187/85	187/85
Expansion Bay (lbs/kgs)	-	-	198/90	309/140
Shipping Dimensions				
Library (LxWxH) inches	48x37x77	48x37x77	48x37x77	48x37x77
SMS (LxWxH) inches	48x40x41	48x40x41	48x40x41	48x40x41
Expansion Bay (LxWxH) inches	-	-	35x34x72	35x34x72
Library Reliability (MSBF)	3,800,000	3,800,000	3,800,000	3,800,000
Bulk Load	10 Disk	10 Disk	10 Disk	10 Disk
Robotics Access Time (sec*)	6.2	6.2	6.3	6.4
Media Transport Assembly (MTA)	Dual	Dual	Dual	Dual
Import/Export Mail Slot	Single	Single	Single	Single
Mean Time To Repair	< 4 Hours	< 4 Hours	< 4 Hours	< 4 Hours
Operating Temperature	50-90F/10-32C	50-90F/10-32C	50-90F/10-32C	50-90F/10-32C
Operating Voltage (auto ranging)	100 to 240 VAC			
Heat Dissipation (Min-Max BTU/hr)	566-1911	566-1911	566-1911	566-1911
Library UDO Drive Connectivity	SCSI	SCSI	SCSI	SCSI
Options	Redundant Power	Redundant Power	Redundant Power	Redundant Power

Highlights of the advanced Archive Management Software feature set include:

- Configurable policies: migration, watermark & storage volumes release, and more
- SMTP/SNMP system notifications
- Media management tools
- Library management tools
- Off-lined media monitoring and management
- UDO Guard data protection
- System diagnostics for library & SMS, including board-level sensor monitoring
- RAID integrity checker
- Advanced replication features available

SMS Technical Specifications

Archive Controller CPU	Quad Intel Xeon X3430
Cache RAM Internal	8MB
SAS Ports	8
PCIe Bus	Yes
SSD Buffer	256 GB
Max Mem Bandwidth	21 GB/s
Drive Connectivity	SAS
Dual Gbe (Bondable for Load Balancing or Failover)	Yes
Configurable Global Hot Spares	Up to 2
Redundant Power Supplies	Yes in SMS
RAID Drives	2 TB
RAID Cache (8 or 12 drive)	24 TB Max Raw

RAID Configurations

8 Drive RAID 5		8 Drive RAID 6		12 Drive RAID 5		12 Drive RAID 6	
Raw	Usable	Raw	Usable	Raw	Usable	Raw	Usable
16TB	8TB	16TB	6TB	24TB	16TB	24TB	14TB



UDO is registered trademark of ASTI - Manufactured under ISO9001 registered quality system