

## 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.

**Elite**

## 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  | 100 to 240 VAC  | 100 to 240 VAC  | 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