

# Product Specs SMB & ROBO MIDMARKET

# File-interface Deduplication System (FDS) Storage Appliances

### MANAGE EXPLOSIVE DATA GROWTH WITH EASY, SCALABLE DEDUPLICATION

With ongoing demands to reduce downtime and meet compliance regulations, organizations must find ways to reduce secondary storage demands, replicate data, speed recovery, and eliminate the security risk of physical media. FalconStor® File-interface Deduplication System (FDS) storage appliances provide fast, reliable data protection across multiple applications, reducing capacity requirements by as much as 20 times, minimizing operational costs, and allowing enterprises to retain more data online longer. Bundled replication transfers only globally unique data, reducing WAN bandwidth requirements by 90% or more, eliminating the need for physical tape transport to perform disaster recovery (DR). With features such as dynamic scalability, high-performance restore, policy-based deduplication and replication, and real-time performance monitoring, these preconfigured turnkey deduplication appliances help customers meet stringent service-level agreements (SLA) while providing data growth management, business continuity, and cost containment.



## Highlights

#### Easy to deploy, seamless integration

- Non-disruptive simple NAS share, NFS/CIFS
- Seamless integration with all major backup software, database utilities, archiving applications, data migration, & virtual environments (*see certification matrix at www.falconstor.com/matrix*)
- Remote access to central global deduplication repository for long-term data retention, fast restore, & service level agreement (SLA) assurance

#### Up to 68TB usable capacity

- Protects up to 1.36PB of original data\*
- RAID protection and integrity checking assure data access
- All-inclusive capacity-based pricing

#### High-performance deduplication

- Up to 95% data reduction\*
- Flexible post-process or concurrent deduplication
- Policy management for data exclusion by date, type, or path
- Direct block-level access during read operations; no file system overhead
- Support for up to 8 bonded 1GbE or multiple 10GbE Ethernet ports
- Sustained performance of up to 500MB/s (3.15TB/hr) for CIFS/NFS connectivity & up to 1.5GB/s (5.4TB/hr) for 10GbE & Symantec OpenStorage (OST)\*

#### Symantec OST integration

- NetBackup and Backup Exec support
- Transparent data replication
- Catalog consistency

#### **WAN-optimized replication**

- Reduces bandwidth requirements by up to 90%
- Policy-based replication incorporates folder- and file-level granularity
- Global replication minimizes bandwidth by sending only unique deduplicated data
- Eliminates tape transport
- Encryption secures data in flight
- Scheduled bandwidth throttling protects shared WAN networks
- Real-time replication performance monitoring

#### **Supports mixed environments**

- Enhances deduplication efficiency
- Single deduplication repository supports any combination of backups, archives, database dumps, virtual environments
- Supports multiple open systems applications

## Specifications: FalconStor FDS Storage Appliances

|   | 300 Series   |   | 600 Series                                    | Storage Expansion Units                                     |  |        |        |         |  |
|---|--|---|---|---|--|--------|--------|---------|--|
|   | FDSSA304   | FDSSA310  | FDSSA623                                      | XM017C  | XM317R                                 | XM617R | XM312R | CXM612R |  |
| Physical Characteristics  |  |   |   |   |  |        |        |         |  |
| Form factor   | 2U   | 4U  | 6U  | 20  |  |        |        |         |  |
| Hot-plug hard drives  | 6  | 18  | 24  | 12  |  |        |        |         |  |
| RAID level  | 6  |   |   | 6   |  |        |        |         |  |
| Disk type   | NL SAS   |   |   | NL SAS  |  |        |        |         |  |
| Repository capacity: usable   | 4.2TB  | 10.5TB  | 23TB  | —   | 12.6TB                                 | 17.8TB | 12.6TB | 17.8TB  |  |
| Logical storage capacity*   | 82TB   | 210TB   | 460TB   |   | 252TB                                  | 356TB  | 252TB  | 356TB   |  |
| Repository scalability  | Up to 32TB;<br>add up to 28TB<br>w/ expansion                                | Up to 32TB;<br>add up to 22TB<br>w/ expansion   | Up to 68TB;<br>add up to 44TB<br>w/ expansion | _   |  |        |        |         |  |
| Maximum # of expansion units  | 4  | 4   | 8   | _   |  |        |        |         |  |
| Sustained ingest speed/performance*                                     | 150MB/s  | 300MB/s   | 500MB/s                                       | —   |  |        |        |         |  |
| Power supply  | Head: Redundant<br>hot-plug<br>auto-switching<br>750W                        | edundant<br>plug<br>witching<br>0W<br>Head: Redundant hot-plug<br>auto-switching 750W<br>Storage: Redundant hot-plug<br>auto-switching 600W |   |   | Redundant hot-plug auto-switching 600W |        |        |         |  |
| Dimensions: Head (HxWxL)  | 3.4 x 17.44 x 26.8 in (8.64 x 44.31 x 68.07 cm)                              |   |   | _   |  |        |        |         |  |
| Dimensions: Storage array (HxWxL)                                       | _  | 3.4 x 17.44 x<br>26.8 in<br>(8.64 x 44.31 x<br>68.07 cm)  | Two<br>3.4 x 17.44 x<br>26.8 in               | 3.4 x 17.44 x 26.8 in (8.64 x 44.31 x 68.07 cm)             |  |        |        |         |  |
| Weight  | 71.5 lb (32.5 kg)  | 134.1 lb (60.9 kg)  | 196.7 lb (89.3 kg)                            | 62.6 lb (28.39 kg)  |  |        |        |         |  |
| Host Connections  |  |   |   |   |  |        |        |         |  |
| iSCSI support - 1Gb/s   | 4 ports  |   |   | —   |  |        |        |         |  |
| iSCSI support - 10Gb/s  | Optional   |   |   | —   |  |        |        |         |  |
| Symantec OST (Ethernet)   | Included   |   |   | —   |  |        |        |         |  |
| Host expansion port interface cards:<br>4 x 1GbE ports; 2 x 10GbE ports | 4 full-height & 3 half-height expansion slots                                |   |   | _   |  |        |        |         |  |
| Advanced Features   |  |   |   |   |  |        |        |         |  |
| WAN-optimized replication w/ encryption & compression                   | Included   |   |   | _   |  |        |        |         |  |
| Additional features   | Email alerts, import/export,<br>hosted backup, Secure Tape                   |   |   | Repository expansion license key, cables, Quick Start Guide |  |        |        |         |  |
| Environmental Requirements  |  |   |   |   |  |        |        |         |  |
| Voltage   | 90-264 VAC, autoranging, 47-63 Hz  |   |   | 90-264 VAC, autoranging, 47-63 Hz                           |  |        |        |         |  |
| Heat output   | 2,891 BTU/hr   | 4,072 BTU/hr  | 5,253 BTU/hr                                  | 1,181 BTU/hr  |  |        |        |         |  |
| Temperature   | Operating: 50° to 95°F (10° to 35°C) Storage: -40° to 149°F (-40° to 65°C)   |   |   |   |  |        |        |         |  |
| Relative humidity   | Operating: 20% to 80% (noncondensing) with maximum gradation of 10% per hour |   |   |   |  |        |        |         |  |
| Altitude  | -50 to 10,000 feet (-16 to 3,048 meters)                                     |   |   |   |  |        |        |         |  |

\*All capacity and performance numbers are based on a 20:1 deduplication ratio.

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