WD Arkeia™ Network Backup Appliances

Product Overview

Bundled OS, application, storage and licensing lower the cost and complexity of backup for SMBs.

WD Arkeia network backup appliances provide simple, reliable and speedy data backup solutions. These appliances are ideal for environments that require high reliability, but have minimal resources for software installation and maintenance.

Models range from compact, quiet, energy-efficient, desktop devices to high-performance, field-upgradeable, rack-mounted units.

With matched processor, memory and storage, coupled with an optimized Linux operating system, each appliance provides a carefully tuned platform for WD Arkeia software. This integration makes deployment rapid, operation reliable and management easy.

Reliability
- RAID-1 or RAID-6 data redundancy for non-stop data availability
- Industry-standard components for maximum reliability
- Tuned, Linux-based operating system for years of operation without reboot
- Award-winning WD Arkeia network backup software

Security
- Administration via HTTPS
- Distinct user accounts for system configuration and backup management
- Fail-safe updates of firmware to flash

Protection for Physical and Virtual Systems
WD Arkeia protects all four of the leading virtualization solutions: VMware vSphere®, Microsoft Hyper-V®, Citrix XenServer® and Red Hat RHEV®. WD Arkeia also supports over 200 physical platforms, protecting virtually all Linux® and Windows® platforms, as well as Mac OS X®, Novell®, Solaris®, HP-UX®, AIX® and BSD, meaning you can protect all your systems with a single backup solution.

Progressive Deduplication™
WD Arkeia uses an advanced, patented deduplication technology called Progressive Deduplication that is both source-side and block-grain. Progressive Deduplication delivers high compression ratios which saves end-users money by reducing storage volume and network performance requirements.

Flexibility
- Raw disk capacities range from 4 TB to 48 TB
- Field upgrades of disk capacity available for most models
- Most appliances support internal or external tape drives
- Tape connectivity options include SAS and Fibre Channel

Easy to Deploy; Easy to Administer
Configure and administer the products using either our Web-based graphical user interface or our command-line interface (CLI). Operations can be performed identically through either interface, offering administrators the utmost flexibility in management.

Upgrading your appliance firmware to benefit from the newest WD Arkeia features is easy because you don’t have to upgrade backup agents on the client machines.
## Product Overview

### Available models

<table>
<thead>
<tr>
<th></th>
<th>DA1300</th>
<th>DA2300</th>
<th>RA4300 Series</th>
<th>RA5300</th>
<th>RA6300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel Atom D525 Dual Core</td>
<td>Intel Xeon E3-1265Lv2 Quad Core</td>
<td>Intel Xeon E3-1230 Quad Core</td>
<td>Intel Xeon E5-2620 Hexa Core</td>
<td>Intel Xeon E5-2620 Hexa Core</td>
</tr>
<tr>
<td>Memory</td>
<td>4 GB</td>
<td>16 GB or 24 GB</td>
<td>32 GB</td>
<td>64 GB</td>
<td>96 GB</td>
</tr>
<tr>
<td>Number of drive bays</td>
<td>2 or 4 x 2 TB</td>
<td>2 or 4 x 4 TB</td>
<td>6 x 4 TB</td>
<td>12 x 3 TB</td>
<td>12 x 4 TB</td>
</tr>
<tr>
<td>Raw capacity*</td>
<td>4 or 8 TB</td>
<td>8 or 16 TB</td>
<td>24 TB</td>
<td>36 TB</td>
<td>48 TB</td>
</tr>
<tr>
<td>Field upgradable</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Usable after RAID*</td>
<td>2 or 4 TB</td>
<td>4 or 8 TB</td>
<td>8 or 16 TB</td>
<td>15 or 30 TB</td>
<td>20 or 40 TB</td>
</tr>
<tr>
<td>Effective after dedupe**</td>
<td>10 or 20 TB</td>
<td>20 or 40 TB</td>
<td>40 or 80 TB</td>
<td>75 or 150 TB</td>
<td>100 or 200 TB</td>
</tr>
<tr>
<td>Progressive Deduplication</td>
<td>Source-side and Target-side</td>
<td>Source-side and Target-side</td>
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<td>Source-side and Target-side</td>
<td>Source-side and Target-side</td>
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<tr>
<td>Disk redundancy</td>
<td>RAID-1</td>
<td>RAID-1</td>
<td>RAID-6</td>
<td>RAID-6</td>
<td>RAID-6</td>
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<tr>
<td>Hard drive class</td>
<td>WD Red™</td>
<td>WD Se™</td>
<td>WD Re™</td>
<td>WD Re</td>
<td>WD Re</td>
</tr>
<tr>
<td>Internal tape drive</td>
<td>—</td>
<td>—</td>
<td>LTO5 Optional</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Solid state drive (SSD)</td>
<td>—</td>
<td>128 GB</td>
<td>—</td>
<td>360 GB</td>
<td>480 GB</td>
</tr>
</tbody>
</table>

### CPU

- **Processor:**
  - Intel Atom D525 Dual Core
  - Intel Xeon E3-1265Lv2 Quad Core
  - Intel Xeon E3-1230 Quad Core
  - Intel Xeon E5-2620 Hexa Core
  - Intel Xeon E5-2620 Hexa Core

- **Memory:**
  - 4 GB
  - 16 GB or 24 GB
  - 32 GB
  - 64 GB
  - 96 GB

### Disk Storage Capacity

- **Number of drive bays**:
  - 2 or 4 x 2 TB
  - 2 or 4 x 4 TB
  - 6 x 4 TB
  - 12 x 3 TB
  - 12 x 4 TB

- **Raw capacity**:
  - 4 or 8 TB
  - 8 or 16 TB
  - 24 TB
  - 36 TB
  - 48 TB

- **Field upgradable**:
  - Yes
  - Yes
  - Yes
  - Yes
  - Yes

- **Usable after RAID**:
  - 2 or 4 TB
  - 4 or 8 TB
  - 8 or 16 TB
  - 15 or 30 TB
  - 20 or 40 TB

- **Effective after dedupe**:
  - 10 or 20 TB
  - 20 or 40 TB
  - 40 or 80 TB
  - 75 or 150 TB
  - 100 or 200 TB

### Progressive Deduplication

- Source-side
- Source-side and Target-side
- Source-side and Target-side
- Source-side and Target-side
- Source-side and Target-side

### Hardware

- **Form factor**:
  - Desktop 8.8in L x 6.3in W x 8.1in H
  - Desktop 8.8in L x 6.3in W x 8.1in H
  - 2U Rack Mount 25.5in L x 17in W x 3.5in H
  - 2U Rack Mount 25.5in L x 17in W x 3.5in H
  - 2U Rack Mount 25.5in L x 17in W x 3.5in H

- **Weight**:
  - 14.6 lb (6.6 kg)
  - 15 lb (6.8 kg)
  - 59 lb (26.8 kg)
  - 77 lb (35 kg)
  - 77 lb (35 kg)

- **Power supply**:
  - 90 W
  - 150 W
  - 650 W
  - 920 W
  - 920 W

- **Configuration**:
  - Dual/Redundant
  - Dual/Redundant
  - Single
  - Dual/Redundant
  - Dual/Redundant

- **Type**:
  - External
  - External
  - Internal
  - Internal
  - Internal

### Software

- **Backup software:** WD Arkeia v10.1, Unlimited Agents, Progressive Deduplication™ and Tape Management

- **Basic bundle (Included):** Backup Server, File Agents and Local Replication

- **Premium bundle (Optional):** MySQL, PostgreSQL, GroupWise, eDirectory®, LDAP Agents and RSO®

- **Virtualization bundle (Optional):** vSphere and Hyper-V Hypervisor Agents®

- **Microsoft bundle (Optional):** SQL Server, Exchange, SharePoint and AD Agents

- **DataCenter bundle (Optional):** Oracle, Lotus and DB2 Agents and SSO®

- **Individual licenses (Optional):** Remote Replication, Encryption and Bare-metal Recovery

### Connectivity

- **Network interfaces**:
  - Data / Control 2 x 1 Gb/s
  - 2 x 1 Gb/s
  - 2 x 1 Gb/s
  - 4 x 1 Gb/s
  - 4 x 1 Gb/s

- **IPMI Port**:
  - —
  - —
  - Dedicated
  - Dedicated
  - Dedicated

- **USB**:
  - 2 x 3.0
  - 2 x 2.0 & 4 x 3.0
  - 2 x 2.0
  - 4 x 2.0
  - 4 x 2.0

- **SAS**:
  - —
  - —
  - Included
  - Included
  - Included

- **Fibre channel (8 Gb/s)**:
  - —
  - —
  - Optional
  - Optional
  - Optional

- **Dual-port 10 Gb/s ethernet NIC**:
  - —
  - —
  - Optional
  - Optional
  - Optional

### Footnotes:

* Following standard SI usage "1 TB=10^12 bytes"  
** This target capacity "after dedupe" assumes an aggregate compression rate of 5-to-1 or 90%. While this data reduction rate is representative of typical business data, actual data reduction rates remain data-dependent.

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