

EMC AVAMAR DATA STORE



EMC Avamar Data Store is a turnkey solution and the easiest way to deploy a physical Avamar server. It provides simplified purchasing, deployment, and service.

EMC® Avamar® Data Store is the easiest and fastest way to deploy a physical Avamar server. It combines EMC certified hardware and EMC Avamar backup and recovery software in a fully integrated, scalable, pre-packaged solution. It eliminates the hassles and complexity of working with multiple vendors for hardware, software, and support. As a turnkey solution, Avamar Data Store significantly reduces on-site setup time, while providing a single point of contact for purchasing, deployment, and service.

EMC Avamar is backup and recovery software with integrated data deduplication, ideal for protecting virtual environments, NAS systems, remote offices, desktop/laptop systems, and business-critical applications. By deduplicating backup data at the client, Avamar provides fast, daily full backups via existing infrastructure and network links. And by deduplicating data across sites and servers, Avamar can dramatically reduce required storage by up to 50x over reasonable retention horizons.

FLEXIBLE DEPLOYMENT OPTIONS

Deploying an Avamar server has never been easier. Build-to-order and pre-racked configurations simplify deployment and reduce costs, while tool-less rails streamline field installation and upgrades. An entry-level Avamar Data Store is ideal for remote offices when fast, local backup and recovery are priorities.

For larger offices and data centers, Avamar Data Store configurations help you to retain the equivalent of several petabytes of cumulative traditional backups that can be immediately recovered in a single step from disk, eliminating the hassles and risks associated with tape storage.

SCALABILITY, HIGH AVAILABILITY, AND RELIABILITY

Unlike many traditional server deployments, Avamar utilizes a scalable grid architecture that enables linear performance and storage increases by simply adding storage nodes. Each additional node increases CPU, memory, I/O, and disk capacity for the entire grid. When adding disk storage, data is automatically load-balanced online without compromising deduplication efficiency or system performance.

When traditional backup solutions fail, data is often lost. To prevent this, Avamar employs patented redundant array of independent nodes (RAIN) technology, redundant power and internal networking, and RAID to provide high availability across nodes, eliminating single points of failure.

For reliability, Avamar Data Store utilizes enterprise-class components. In addition, Avamar system integrity is verified twice daily via internal system checkpoints, and Avamar verifies the recoverability of all backup data daily. Backup data can also be efficiently replicated to another Avamar server for disaster recovery. And for security, backup data can be encrypted in-flight and at-rest enabling safe and cost effective disk-based storage.

MANAGEABILITY AND SUPPORT

Managing an Avamar Data Store is easy and convenient. Systems can be securely accessed via existing network links and integrated with popular management frameworks via SNMP for remote access anywhere, anytime. As a completely integrated solution from EMC, system updates are pre-qualified and tested so that you can apply them quickly and safely, without worrying about component compatibility issues.

For prompt and simplified service, administrators can utilize proactive system email home, monitoring via ConnectEMC, and remote access through the optional EMC Secure Remote- Gateway Server. Premium support provides onsite replacement parts and service within four hours (where available) for peace of

mind. In addition, support is accessible at any time via live web chat, telephone, web-accessible documents, and technical advisory forums to name a few. Whatever your preferred communication method, EMC is ready to help.

SPECIFICATIONS

CAPACITY

Avamar Data Store systems are available from as little as 1.3 TB up to 124 TB of deduplicated disk storage capacity. Specialized management, media access, and NDMP Accelerator Nodes round out the offering.

	Scalable Architecture (Up to 16 storage nodes)	Single-Node (Requires replication)
Usable licensed deduplicated disk storage capacity	11.7 to 124.4 TB	1.3 TB/2.6 TB/3.9 TB/7.8TB
Equivalent cumulative, traditional backup storage	Up to several PB	Up to several hundred TB

CONNECTIVITY

Gigabit copper Ethernet connection

PROTOCOL SUPPORT

TCP/IP

AVAILABILITY AND SUPPORTABILITY FEATURES

- Patented RAIN architecture for high availability across nodes
- Hot-swappable disk drives and power supplies
- Optional spare storage node for redundancy
- Remote Access Capability (RAC) allowing remote power On/Off/Reboot/Diagnostics even when powered down
- Field-Replaceable Units (FRU) for simplified maintenance
- Non-disruptive software maintenance and updates
- Avamar server integrity and data recoverability verified daily
- Secure replication for disaster recovery
- Premium-level support ensures four-hour onsite replacement parts (24x7)

DIMENSIONS* (INSTALLED)

Height (in/cm)	Width (in/cm)	Depth (in/cm)	Weight (lbs/kgs)
75/190	24/61	39.4/100	2,600/1,182

*Dimensions are for the multi-node Avamar Data Store, fully populated with 16 nodes and switch.

Service Area: Front 32.8in/82 cm; Rear 36 in/91 cm; Top 18 in/45.7 cm

POWER SPECIFICATIONS

	North American International	Single-Node (Requires replication)
Input voltage (VAC)	200-240	200-240
Frequency (Hz)	50-60	50-60
Current	30A single phase	30A single phase
Power connector	L6-30P Or RS 3750DP (qty: 2 or 4/rack depending on load)	IEC-309-332P6 IP-57P (Australia) (qty: 2 or 4/rack depending on load)
User-supplied power receptacle	L6-30R or RS 3750DR (qty: 2 or 4/rack)	IEC-309-332R6 IP-57R (Australia) (qty: 2 or 4/rack)

ENVIRONMENTAL SPECIFICATIONS

Temperature (°F/°C) operating	50-95/10-35 (-40-149/-40-65 non-operating)
Altitude (ft/m) max.	10,000/3,000 operating (25,000/7,600 non-operating)
Humidity (%) non-condensing	20-80 (10-90 non-operating)
Maximum power consumption per cabinet (VA)	5,358
Maximum heat dissipation per cabinet (BTU/hr)	17,040
Raised floor	Not required

Power and heat dissipation ranges are maximums for a maximum Avamar Data Store configuration (16 active storage nodes, utility node, spare storage node, and two internal switches).

Avamar TB capacity licenses are measured in decimal (e.g., 1 TB = 1,000,000,000,000 bytes). Licensable capacity includes deduplicated customer backup data and RAIN parity data (for RAIN-based systems).

REGULATORY AND AGENCY CERTIFICATIONS

Safety Agency Compliance and Certifications

Safety of Information Technology Equipment

- CSA 22.2 60950-1 2nd Edition
- IEC 60950-1 2nd Edition

Safety of Information Technology Equipment, including electrical business equipment

- EN 60950-1 2nd Edition
- UL 60950-1 2nd Edition

EMI/EMS Compliance and Certifications Standards

FCC Part 15 Class A, Radio Frequency Device Requirements

ICES-003 Class A, Interference-Causing Equipments Standard Digital Apparatus

CE Marking, European EMC Directive

VCCI Class A, Voluntary Control Council for Interference

AS/NZS CISPR22 Class A, Electromagnetic Interference – Limits & Methods of Measurement of ITE

CNS13438 - BSMI EMC Requirements

KCC - RRA EMC

CONTACT US

To learn more about how EMC products, services, and solutions help solve your business and IT challenges, contact your local representative or authorized reseller--or visit us at www.EMC.com.

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