

SONY



SCALABLE. RELIABLE. FOREVER.



Everspan is a highly scalable solution for secure, long term data storage

The Everspan Library is built around expansion modules that provide nearly unlimited speed and scalability for archiving like never before. The Everspan design is comprised of 4 sections – The Base Unit, Robotic Unit, Expansion unit and End Unit, to effortlessly scale capacity as business demands increase. Once a base Archival Disc library is in place additional Expansion Units can be scaled at 12.6 PB increments up to 177PB per library.



Expansion units can hold up to 680 media trays for a total capacity of 12.6PB

High performing, ultra reliable archiving with the lowest cost of ownership in the industry

Utilizing new optical technology Everspan provides unrivaled random data access while transfer rates match or exceed the competing tape and HDD solutions. Proven and highly reliable robotics allow Everspan to achieve a time to first byte in as little as 85 seconds. With peak drive transfer rates of 315 MB/s the aggregated average total transfer rate of a library is 18 GB/s. Everspan overcomes current limitations for data reliability and offers multi-generation read/write compatibility. Backwards compatibility between multiple drive generations supports seamless technology upgrades. This warrants access to your already archived data virtually forever. Everspan comes with an industry leading 100 year, unlimited read media warranty. Media is the most important value of the archive system and this is why we back it with an unprecedented media warranty. The combination of compatibility across optical generations and long lasting media, allows Everspan to eliminate the need for data migration. By utilizing less space and power than current archiving solutions and the ultra reliability of media, Everspan achieves the lowest storage system cost and cost of ownership in the industry.

Features & Benefits

Up To 64 Drives Per Library | Enables rapid retrieval of data for applications, returning a terabyte of data in less than a minute.

Dual Sided Array Drive | Enables large amounts of data to be written quickly and restored rapidly. All heads on one media side can access the complete data area, thereby adding redundancy.

Row Level Library Design | Allows seamless integration in regular data center layouts.

Library Expansion Units | Enable the expansion of storage without radically changing the power footprint of the solution for easier datacenter power planning.

Internal Media Tray Staging Area | Reduced latency for tray loading, allowing the system to return data faster.

Multi Disc Picker | Loads 4 optical media concurrently to 4 drives, providing 1.1 GB/s of bandwidth with random access.

Physical WORM | Data is kept permanent and cannot be erased; resilient against accidental or hacked erasure.

Sealed Media Trays | Chain of custody for media trays to help enable better security for data.

Erasur Code Support Across Drives and Libraries | Provide continued data access in case of hardware failures or hardware being offline with minimal overhead.

100 Year Media Warranty | With minimal environmental controls media reliability can exceed 100 years, reducing operational costs.




Sony Optical Archive Inc.
1730 N. First Street, Suite 1510
San Jose, California 95112

Email info@everspan.com
Sales 1.844.725.0398

learn more:
www.everspan.com

Technical Specifications

Everspan Base Configuration

Optical library systems are designed in rows for seamless data center integration			
	BASE UNIT	ROBOTIC UNIT	EXPANSION UNIT
	1 per row 16 to 64 drives per row	1 per row Services entire row	1 to 14 per row 12.6 to 177 PB capacity
Physical			
Height	95" (2415mm)	95" (2415mm)	95" (2415mm)
Width	36.9" (937mm)	37.6" (956mm)	70.7" (1796mm)
Depth	73.9" (1876mm)	73.9" (1876mm)	73.9" (1876mm)

System Specifications

Performance	
Average Drive Read Rate	280MB/s
Max Read Transfer Rate per Drive	315MB/s
Average Write Transfer Rate per Drive	140MB/s
Average Row Transfer Rate	18GB/s
Average System Transfer Rate	72GB/s
Minimum Time To First Byte	85 Seconds

Reliability	
Media Life	Greater Than 100 Years
Media Loads to Drive	Unlimited
Read Frequency	Unlimited

Power	
Typical Power Consumption per Row	Approx. 9 kW
Idle Power Consumption per Row	Under 2 kW
Input Voltage (AC)	208, 220, 230, 240, 277

Capacity	
Base Configuration (1 Expansion)	12.6 PB
Expansion Unit	12.6 PB / Unit (Up to 14)
Max Row Capacity	177 PB
Rows per System	1, 2 or 4
Total System Capacity	708 PB
Media Tray Capacity	18.5TB
Media Trays per Expansion Unit	680

Interfaces	
•	S3 Object Store
•	File System
•	Generic Tape Drive
•	MMC-6 Optical Drive

Environmental	
Operating Temperature	41°F (5°C)– 95°F (35°C)
Humidity Tolerance	20% - 90% (No Condensation)
Storing Temperature	14°F (-10°C) to 131°F (55°C)
Storing Humidity	5% to 90%
100 Year Media Warranty	Max 86°F/95% r.H or 122°F/40% r.H