

SPECTRA LOGIC



NASTAPE



RXT



2K



10 K



20k



T120



RXT RACKMOUNT



64k



T950

CHANGING THE WORLD OF STORAGE



RXT Sabre

Combining the Best of Tape and Disk In Data Protection



Spectra Logic
Changing the World of Storage



Data Protection: The Shift

... the emergence of suitable technological alternatives ... point[s] towards a future increasingly dominated by disk-based secondary storage.....

ESG market research March 2005

Data Protection: Innovative Solution

ESG Market Research Findings

- Disk Advantages
 - Performance
 - Reliability
 - Ease of use
- Disk Drawbacks:
 - The cost of disk based solutions
 - Inability to support long-term and off-site data protection requirements
 - **Lack of media portability**

ESG market research March 2005

Spectra Logic Solutions

- Offering the best of both worlds - disk and tape

The Core Technology

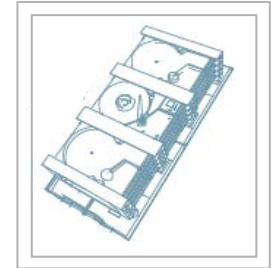
RXT (RAID eXchangable Terapack)

Combines Convenience:

Portability, scalability, and cost benefits of tape

With Performance, and Reliability of disk

And make it easy to use and integrate into the existing environments and procedures



RXT Sabre Media



RXT Sabre Drive

RXT- SabreDrive, SabreMedia

RXT SabreDrive

- Same dimensions as LTO tape drive
- Full software emulation of LTO tape drive



RXT SabreMedia

- Same dimensions as T950 TeraPack case holding multiple tapes
- Choice of SabreMedia capacities, performance, RAID levels
- Write Options: Encryption, Compression, WORM



Tape TeraPack





Why is Removable Disk Feasible Now?

- Availability of Highly Reliable, High-Performance SATA Drives
 - 900G Shock Protection (non-operating)
 - 1,000K Hour MTBF
 - 80GB per Spindle and moving to 100+ GB soon
 - 80MB/sec Data Transfer Rate
 - Very low power consumption (ease of cooling)
 - Off platter parked head
 - Simplified Serial Interface (SATA) with low Connection Count
- Availability of Automation platform (Spectra T950)

RXT Sabre Family



RXT Sabre Drive
Single RXT Docking Station



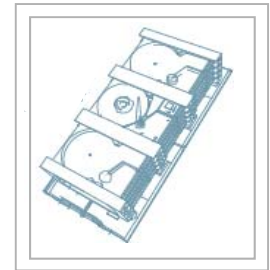
RXI Sabre Blade
Combination of RXT and Tape



RXT Sabre for T950
Integration with T950
Up to 120 RXT Drive/Sleds
Or mixed with Tape

RXT SabreMedia: Value proposition

- Reduces Risk
 - Graceful migration to disk-based data protection
 - Full emulation of LTO tape drive and media
- Easy to Use and Manage
 - Media is barcoded and tracked by application
 - No change in software application or policies
- Linear economies of scale as tape
 - Pay as you need for capacity
 - Pay as you need for performance
- Different media type for different applications



RXT SabreMedia

RXT SabreMedia: Value proposition

- High performance
 - Fast stores
 - 80 meg/sec
 - Speed matching eliminated
 - Quick Restores
 - Random access
 - High speed search for single or multiple files or directories
- High reliability
 - RAID
 - Eliminates media load/unload failures
 - Eliminates media backward compatibility
 - Fewer media exchange within library due to high capacity



RXT Sabre Media

RXT SabreMedia: Features

- Portable
- Durable
- Different media class for different usage
 - Visually identifiable
 - Different technical specs. for variety of needs

- Compression
- Encryption
- WORM
- Low power consumption



RXT Sabre Media

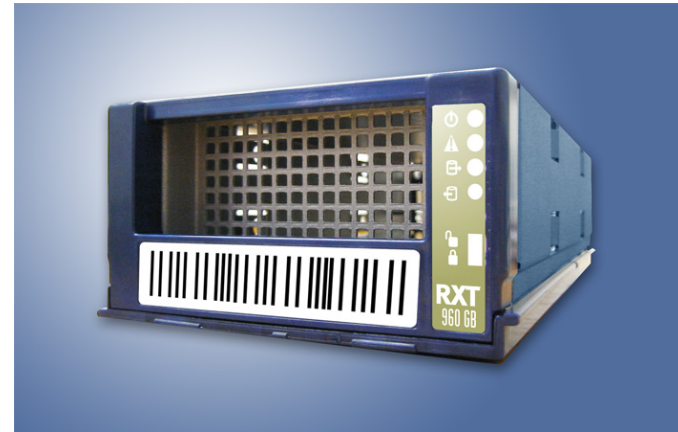


Iron Mountain storage container, designed for RXT off-site storage

RXT SaberMedia types

■ Gold Media

- High end
- High capacity
- High durability
- High Performance
- Max data security



Media Capacity	Drive Type	Drive capacity	RAID level possible	Automation ready
960 Gig	12 X 2.5"	80 Gig	0, 1, 5	Yes
480 Gig	6 X 2.5"	80 Gig	0, 1, 5	Yes

RXT SaberMedia types cont...

■ Silver Media

- High capacity
- Good reliability
- Good fit for most commercial use
- Cost effective media for automation



Media Capacity	Drive Type	Drive capacity	RAID level possible	Automation ready
800 Gig	2 X 3.5"	400 Gig	0, 1	Yes
500 Gig	2 X 3.5"	250 Gig	0, 1	Yes

RXT Saber media types

■ Green Media

- High end
- Very High capacity
- High reliability
- Best cost/Gigabyte



Media Capacity	Drive Type	Drive capacity	RAID level possible	Automation ready
1.6 TB	4 X 3.5"	400 Gig	0, 1, 5	No
1.0 TB	4 X 2.5"	250 Gig	0, 1, 5	No

RXT Sabre Data Protection Family



SabreDrive



SabreBlade



SabreMedia



SabreDrive for T950



SabreDrive : Value proposition

- Main values
 - Certainty (redundancy of RAID)
 - Convenience (Seamless integration into existing environment, no more changing tapes)
 - Mobility (Store offsite, easily move between locations)

- High performance
 - Fast stores
 - 80 meg/sec
 - Speed matching eliminated
 - Quick Restores
 - Random access
 - High speed search for single files or directories
 - better yet for multiple files and/or directories

- High reliability
 - RAID
 - Eliminates Media load/unload failures
 - Eliminates media backward compatibility
 - Rugged media enclosure



SabreBlade: Value Proposition

- ~ 5TB in 2U rack-mount enclosure
- Integrated with Tape drives
- Premium data protection for companies that simply can not afford to loose data
- Key Values
 - Certainty (redundancy of RAID)
 - Convenience (Seamless integration into existing environment - D2T, Less space)
 - Investment protection – easily upgraded (Just slip in new media)



RXT SabreDrive for T950 - Value Proposition

- Seamless integration into T950
 - No hardware modification to the library
 - LTO emulation for seamless integration into the existing environment
 - Scalable in performance and capacity
 - Multi-tier storage in the same enclosure
 - Permits risk free, gradual shift to D2D2T
 - Easy installation (15 minutes)
 - Single point of management for disk *and* tape
 - Fewer number of media loads/unloads
- Other value propositions
 - Long term savings on media spending
 - Highly reliable, important for high-transaction environment
 - Very cost-effective
 - Pay as you go (linearly scalable)
 - Lower utility and foot print demand



Beta Sites usage

- 6 Beta Sites Identified
 - SBC
 - Add info here on the customer's interest in RXT and target environment
 - GMAC Mortgage
 - Add info here on the customer's interest in RXT and target environment
 - Iron Mountain
 - Add info here on the customer's interest in RXT and target environment
 - Wells Fargo
 - I need a solution for XXXXXX data center, which does not allowed to have tape at this facility. Have to write to disk. Do not want to change the environment and application and procedures.
 - Speed of store and restore; the alternative solutions are very expensive (New tape drives in SL5500 or SL8500).
 - Amount of capacity relative to footprint will offer the most cost effective solution
 - This offers great cost savings on the number of tape media purchasing
 - Eliminates great number of media errors
 - Add info here on the customer's interest in RXT and target environment
 - Defense Contract Management Agency (DCMA)
 - Add info here on the customer's interest in RXT and target environment
 - Allstream
 - Add info here on the customer's interest in RXT and target environment
- Beta period begins April 2005

