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Sony AIT-5 Tape Technology saves more Data-Center Space by Rob Miller

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Strict government regulations, data-intensive applications, rush to E-commerce and new time-critical backup software are driving the demand for faster, lower cost, higher capacity and multi-functional storage solutions. IT managers demand backup tape devices that are user-friendly, require less operator interventions, shorten processing times and deliver highest level of data security.

Data managers can meet these tougher business requirements and demanding data storage challenges with AIT backup tape format. This powerful and state-of-the-art tape format was invented by Sony. AIT tape format features extraordinary data density, which has helped to reduce the drive mechanism and tape cartridgeâ€™s size.

AIT-5 tape offers highest capacity and performance in Sony AIT family. Sony AIT5 tape efficiently satisfies the customersâ€™ demands and supports a broad range of backup environments including branch offices, small and medium businesses, and storage-intensive enterprises. AIT-5 format offers unbeatable reliability and massive 1.04 TB compressed capacity. 2.6:1 compression ratio makes AIT-5 backup tape technology more advantageous than other tape storage formats.

Stiff data retention laws have intensified the challenges of backup storage and long term data protection. Government regulations demand that your financial data, corporate records, E-mails etc. should be reliably preserved in a non-alterable format. Sony AIT-5 tape format provides you a reliable solution to fulfill these requirements in a cost-effective way. Sony AIT5 offers WORM mechanism that does not allow modifications to the recorded data. WORM technology records the data in a non-erasable format, thus providing protection against common human errors and accidental over-writings. WORM-enabled AIT5 cartridge developed by Sony is SDX5-400W, and the simple re-writable AIT5 tape is SDX5-400C. Good news is that the WORM technology also helps in satisfying the European data retention regulations as well.

Sony AIT-5 drives provide you the luxury to store and archive your data with AIT-3Ex, AIT4 and AIT3 tapes as well. You can confidently perform both write/read operations with absolute integrity. Thatâ€™s why Sony AIT5 is the best medium for the current AIT customers who want to migrate to next high-capacity generation and ensure investment protection.

HP is also a leading brand of AIT tapes. Q1997A, Q1998A and Q1999A are the part numbers of HP AIT-1, AIT-2 and AIT-3 tapes.

The other major competitors in Sony AIT-5 tapeâ€™s class are dlt-iv tape, lto 2 tape, vxa-2 tape, sdlt 1 tape, sdlt2 tape, dds4 tape, lto3 tape and lto1 ultrium tape.

Sony has incorporated a highly intelligent and durable â€œhelical scanâ€• recording system in AIT drives, which ensures low energy consumption, ultra-high recording density and sharply reduced tape tension. All these powerful features enable the Sony AIT5 drives to deliver MTBF of 400,000 hours.

It is better to use a cleaning cartridge after regular time intervals or working hours. SDX5-CL cleaning cartridge, developed by Sony, is compatible with all Sony AIT5 drives. Base film of Sony AIT5 is protected by a special diamond-like carbon (DLC) coating that dramatically reduces tape deterioration, and protects the tape medium against harsh environmental conditions.

With Sony AIT5 format, your company can cost-effectively and flexibly expand its business operations, and enjoy long term reliability.

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