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Sony AIT 1 Turbo, the Space-Efficient Backup Solution for Small Organizations Stiff Challenges by [Rob Miller](#)

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Maximizing the performance, while managing the exploding databases in a cost efficient manner has burdened the business enterprises. Ensuring long term storage, robust security and in-time availability of these large data files adds to these tough challenges. Demand of backup storage solutions continues to multiply as the business enterprises from India, U.A.E, Korea, Latin America, Turkey and many other emerging countries are securing their data center with backup systems. This helps them to successfully compete in international market, while ensuring quick businesses response. Therefore, the top priority of all types of organizations (small to large) is efficient and reliable backups of their corporate data.

Sony, the prime innovator and market leader in backup industry, designed AIT (Advanced Intelligent Tape) format for space-constrained companies. Its backup performance and reliability are also superior, thus making it the most popular tape technology. This remarkable success encouraged Sony to introduce its advanced tape version known as AIT turbo. We are going to look at the strong attributes of its first generation.

Sony AIT1 turbo is a high-performance solution specifically engineered for cost sensitive budgets and the stiff demands of low-end market. AIT1 turbo tape, regardless of its small size, has an impressive 40GB uncompressed capacity. The state-of-the-art ALDC (Adaptive Lossless Data Compression) system delivers a remarkable enhancement of 2.6 to 1. So, the AIT-1 turbo tape's compressed media capacity reaches 104 GB. The cartridge shell's exceptional durability and ultra-fine base film have extended its working life.

The super-fast internal (SDX-450V, SDX-460V) and external (SDX-D450V/NB) AIT-1 turbo drives perform excellently with the broadest array of small data centers. The flexible configurations allow data administrators to conveniently integrate the tape drives, while enjoying maximum utilization of their data center space. Moreover, these drives are designed to extend the investments made by the businesses in AIT 1 technology. Sony's AIT1 tapes, SDX1-25C and SDX1-35C, are compatible with these high-speed AIT1 turbo drives. So the AIT-1 turbo customers can operate millions of Sony AIT 1 tapes in use today. Native 6MB/second speed enables the drive to record approximately 21.6GB information in one hour. Thanks to the automated head cleaner system, the drives achieve an exceptionally high mean time between failure (MTBF) of 300000 hours. Robust drive head reliably reads/writes data up to an impressive 50,000 contact hours.

AIT backup technology provides its customers the benefit of standardizing on a single tape-based format. So the AIT customers won't have to completely overhaul their data center when their storage needs increase. AIT 1 turbo drives save more time with their fast media loading time of 14 to 25 seconds. Moreover, their 12MB data buffer helps boost the storage performance, whereas the 720 MB/second searching speed keeps pace with the advanced enterprise applications. AIT 1 turbo tape's useful life of 30000 hours is also superior to other backup media tapes. So the small organizations looking to simplify their data center, and reduce I.T expenses while backing up data in a smaller time frame can count on this AIT 1 turbo system.

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[Rob Miller](#) - About Author:

Frank Miller is the Marketing Manager of Backuptape and markets a [TAIT1-40C](#) and a [TAIT1-40N](#). He has vast experience in the marketing and trading industries and has been helping buyers who have the backup needs and guide clients about the technology.

Frank Miller

3984 Washington Blvd #503 Fremont CA 94538

Tel: 888-686-8273

Fax: 888-449-5050

Email: sales@backuptapes.net

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