

I/A Series® Hardware

PSS 21H-3E3 B4

Advanced Intelligent Tape (AIT) Drive



The I/A Series® Advanced Intelligent Tape (AIT) drive is ideal for backing up and restoring hard disk drive data in high performance I/A Series® environments.

FEATURES

The I/A Series AIT-2 Turbo drive offers the following features:

- ▶ Advanced Intelligent Tape technologies to facilitate high performance file backup and retrieval via a USB interface
- ▶ Support for Windows XP® and Windows Server 2003® operating systems
- ▶ Support for the Solaris™ 10 operating system on Model P82 workstation
- ▶ Compatibility with P82, P90, P91, and P92 workstations
- ▶ Fourth generation of AIT tape drives.

OVERVIEW

The I/A Series® Advanced Intelligent Tape drive allows you to back up and restore hard disk drive data in Advanced Intelligent Tape (AIT) format. The system is designed specifically for computers that demand high performance backup and file retrieval.

The tape drive kit features a USB 2.0 and FireWire interface to provide ease of use and serviceability for mission critical applications.

The I/A Series AIT drive is based on helical-scan recording technology and is engineered with a number of reliability features.

Automatic head cleaning, gentler tape handling, an integrated fan, and tape media designed to prevent tape “shredding” all combine to increase the reliability of AIT drives, while reducing maintenance to a minimum.

The AIT drive uses Adaptive Lossless Data Compression (ALDC) technology and Advanced Metal Evaporated (AME) data cartridges which can hold 80 GB of data in native mode, but will store 208 GB with 2.6:1 data compression. The drive also supports Memory in Cassette (MIC) technology to cut data search time. The drive reads index information from a memory chip in the tape case as the tape is inserted into the drive. This drive comes with a USB cable.

There are three front panel light-emitting diodes (LEDs) that reflect the operation and status of the AIT subsystem. They are TAPE MOTION, CLEANING REQUEST, and REPLACE TAPE.

COMPATIBILITY

The I/A Series AIT drive is fully compatible with I/A Series P82, P90, P91, and P92 workstations that connect to the AIT drive via a USB interface.

Part number: P0923EF for the AIT-2 Turbo drive with USB and FireWire interfaces.

FUNCTIONAL SPECIFICATIONS

Power Requirements

VOLTAGE INPUT RANGE

100 to 200 V ac/220 to 240 V ac

POWER

20 W (average)

FREQUENCY RANGE

50 to 60 Hz

Host Interface

P0923EF: USB 2.0 and FireWire

Operating Systems

Solaris 10 operating systems, Windows XP operating system, and Windows Server 2003 operating system.

Media

R/W AME (80/208 GB) with Memory-in-Cassette (MIC)

Write once, read many (WORM) AME (80/208 GB) with MIC (not Invensys supplied)

Reliability (MTBF)

300,000 hours (100% duty cycle)

Native Data Capacity per Drive

80 GB

Maximum Hardware Compressed Data Capacity per Drive⁽¹⁾

208 GB

(1) Average 2.6:1 data compression on an AME data cartridge, actual results will vary depending on type of files.

FUNCTIONAL SPECIFICATIONS (CONTINUED)

Transfer Rates

MAXIMUM SUSTAINED NATIVE
12 MBytes/sec (43.2 GB/hour)

MAXIMUM BURST
160 MBytes/sec

Search Speed

43 seconds (with Memory-in-Cassette [MIC])
48 seconds (without MIC)

Status LEDs

TAPE MOTION, CLEANING REQUEST, and
REPLACE TAPE

PHYSICAL SPECIFICATIONS

Mechanical Specifications

HEIGHT
2.5 in (64.5 mm)

WIDTH
7.8 in (198 mm)

DEPTH
9.7 in (246 mm)

WEIGHT
5.3 lb (2.4 kg)

ENVIRONMENTAL SPECIFICATIONS

Ambient Temperature

OPERATING
50 to 95°F (10 to 35°C)

STORAGE
-40 to 158°F (-40 to 70°C)

Humidity (noncondensing)

OPERATING
30 to 80%

Location

UL/UL-C listed as suitable for use in ordinary locations and meets ordinary safety standards for fire and shock hazards.

Contamination

Class G1 (Mild) as defined in ISA Standard S71.04



33 Commercial Street
Foxboro, MA 02035-2099
United States of America
www.foxboro.com
Inside U.S.: 1-866-746-6477
Outside U.S.: 1-508-549-2424
or contact your local Foxboro
representative.
Facsimile: 1-508-549-4999

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