

# Archive

## Model 4586NP

### Auto Loader Tape Drive

#### Specifications and

#### Instruction Manual

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## **Auotloader Tape Drive Performance**

### **Capacity**

|                |            |              |
|----------------|------------|--------------|
| 90 Meter Tape  | Native     | N/A          |
|                | Compressed | N/A          |
| 120 Meter Tape | Native     | 16 Gigabytes |
|                | Compressed | 32 Gigabytes |

### **Data Transfer Rate**

|            |            |
|------------|------------|
| Native     | 400 KB/sec |
| Compressed | 800 KB/sec |

### **Burst Transfer Rate**

5 Mb/sec

### **Tape Speed**

0.47 inches/sec      11.9 mm/sec

### **Head to Tape Speed**

270 inches/sec      6858 mm/sec

### **Search/Rewind Speed**

200x normal speed

### **Average Access Time**

|                |            |
|----------------|------------|
| 90 Meter Tape  | 30 seconds |
| 120 Meter Tape | 40 seconds |

### **Buffer**

1 MB

### **EEPROM**

Flash

### **Recording Method**

Helical Scan (R-DAT)

### **Recording Format**

DDS-2 ANSI/ECMA  
DDS-DC

### **Form Factor**

|                     |  |
|---------------------|--|
| Internal Drive      | 3.5 inch x half high or 5.25 inch x half high (1.7") |
| External Drove      | Standalone unit with integral power supply           |
| Internal Autoloader | 5.25 inch x full height, internal mount              |
| External Autoloader | Standalone unit with integral power supply           |

### **Error RATE**

Less than 1 in  $10^{15}$  bits

### **Controller Interface**

|                  |   |
|------------------|---|
| Interface Format | SCSI-2                                    |
| Transmission     | Single-ended, asynchronous or synchronous |

### **Media**

|                 |   |
|-----------------|---|
| Recording Media | 4mm DAT metal particle<br>(DDS qualified media recommended) |
| Cassette Size   | 2.9 in. x 2.1 in. x 0.4 in. (74mm x 53mm x 10mm)            |
| Tape Length     | 295 feet (90 meters)  |
| Packing Density | 1,869 tracks/in. (73.6tracks/mm)                            |
| Areal Density   | 114 Mbits/sq.in. (176,700 bits/sq.mm)                       |

### **Power Requirements**

|                             |  |
|-----------------------------|--|
| Operating internal<br>Watts | +5V 0.77A typical      +12V 0.4A typical |
| External                    | 8.7 typical<br>100 to 240 VAC universal  |

### **Physical Specifications**

|             |  |
|-------------|--|
| Form Factor | 5.25-inch, full-height, internal mount |
| Height      | 3.2 inches (82.0mm)                    |
| Width       | 5.7 inches (145.0mm)                   |
| Length      | 8.0 inches (203.2mm)                   |

(8.5 inches maximum includes SCSI ribbon cable connector, power connection, serial port connection and other small features that might extend beyond the 8.0 inch dimension).

## Product Certifications

UL 1950, FCC Class B; CSA C22.2,  
No. 950-M89; TUV EN 60 950

## Expected Reliability

Drive

MTBF

MTRR

Autoloader Mechanism

MSBF

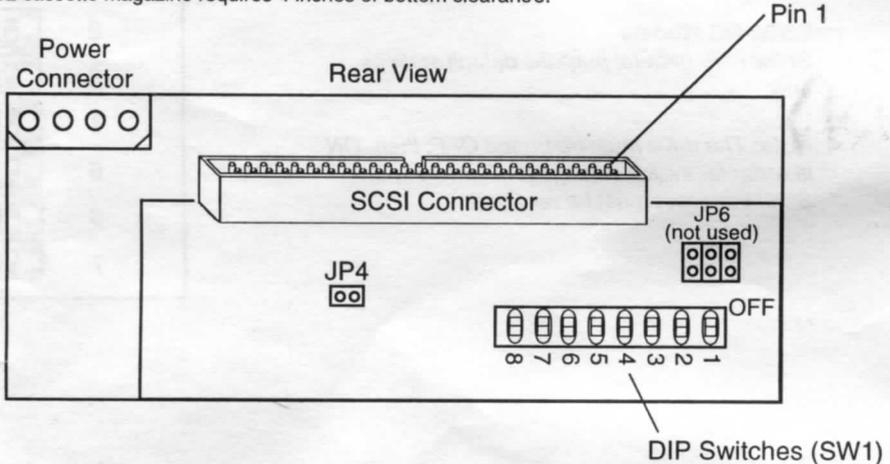
Greater than 150,000 hours

Less than 0.5 hours

Greater than 50,000 cassette insertions

\* Capacity and transfer rate with data compression are dependent upon the characteristics of the files being compressed.

\*\* 12 cassette magazine requires 4 inches of bottom clearance.



## Setting Operational Switches

Before you install the 4586NP Autoloader in the computer, you must check the switch settings on switchbank SW1. You must also consider the termination requirements for your installation and make any adjustments necessary.

Set the configuration switches (SW1 switches 1 through 8) which can be accessed through the cutout at the rear of the unit where the step-down occurs. These switches allow you to set up the following configuration options:

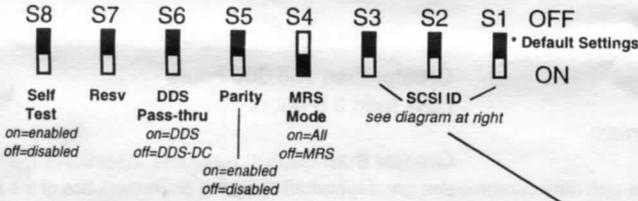
- SCSI device address (S1 through S3): Default = SCSI ID 0 (S1 through S3 = OFF)
- Media Recognition System (MRS) mode (S4): Default = MRS OFF (S4 = ON)
- Parity check enable/disable (S5): Default = Parity disabled (S5 = OFF)
- DDS pass-through mode enable/disable (S6): Default = Pass-through mode disabled (S6 = OFF)

**Note:** When S6 is OFF, DDS-DC data compression is ENABLED.

When S6 is ON, DDS-DC data compression is DISABLED.

- Power-on self-test enable/disable (S8): Default = Power-on self-test disabled (S8 = OFF)

**Note:** Switch S7 is reserved and must be in the OFF position.



### DDS2-DC Models

*Shown are general purpose default settings only.*

**Note:** *The drive must be truned OFF; then, ON in order for switch settings to take effect, or a SCSI bus reset must be received.*

