

An International reputation

M4 Data's high-performance, horizontal 9-track tape drive has won an enviable international reputation. The 9914 excels in meeting the data interchange, data conversion, fast backup/restore and archiving requirements of virtually all types of computer. It combines superb tape handling and outstanding performance with field-proven reliability of a very high order. It is also easy to use and to service and it offers a remarkably low cost of ownership. In short, it has all the qualities that make PINETREE Data's products renowned throughout the world.

Industry-leading features

The 9914 has long incorporated many industry-leading features. These include: reading and writing in quad density; dualspeed

transfer rate of 125 & 42 ips; fast rewind speed of 320 ips; a seismic mode to keep tape tension in 'sticky tape' situations, and an extensive diagnostic capability. Now, as the result of a continual search for perfection, the 9914 gives you even better throughput and efficiency. It now also meets many of the Bellcore specifications for telecomms applications, besides having a 48 V d.c. supply option.

The previous interface options of standard SCSI and buffered Pertec/Cipher have been extended by the addition of FAST SCSI (SCSI-2), with data transfer at up to 10 megabytes/second. It facilitates both single-ended and differential operation, and its high-capacity, built-in buffer (up to 2 MB) enables the 9914 to closely emulate the performance of a stop/start drive, but with all the inherent advantages of a streaming device. Wide SCSI (SCSI-3) connectivity is optional.

With this choice of interfaces, the 9914 allows almost any type of computer to access all the many advantages of 9-track tape. Configuration is simplified by a front panel selection facility, with alpha-numeric display in a choice of English, French, German, Spanish or Dutch.

Automatic tape loading

The 9914 is very user-friendly. It's simple, straight tape path and air-loading system allow tape to be loaded automatically and the drive to be put on line in ultra-fast time. It accepts all standard tape reel sizes and is whisper-quiet in operation.

Software

Easily installed software handles a wide range of tasks, including:
IBM/ANSI data interchange, file conversion, record select/reject
Tape copy and duplicate
Disk backup and restore
Long block data handling
Unix tar - MSDOS file conversion
PC applications - Win 3, Win 95, NT
 Plus many specialist application options.

Best reliability rating

The design excellence of the 9914 ensures absolute reliability. Few moving parts, and the use of surface-mount VLSI, contribute to an MTBF in excess of 25,000 hours. Advanced mechanical design, *super-stable precision aluminium tape path*, ceramic tape guides that don't touch the tape, and failsafe over-tension protection, guarantee gentle and accurate handling - with longer tape life, superb tape/head alignment and less risk of data loss.

Impressive serviceability

Highly effective, internal fault-isolating diagnostics, allied with highly modular Field Replaceable Units (FRUs), contribute to an MTTR of less than 30 minutes.

Diagnostics are self-contained and can be selected from the front panel or host-invoked over the SCSI interface. Access to the interior is gained by simply lifting the hinged main chassis. All assemblies are self-calibrating through the built-in diagnostics, so no adjustments are necessary.

PINETREE's 9-track product family

Besides the 9914, the PINETREE product family now includes the auto-loading, vertically mounted 9914V model (ideal if cabinet depth is limited, or in telecom applications) and the

new briefcase-size 9906, which is ideal for workstation and PC applications.

Full warranty & support

PINETREE provides first-class field support through a standard 180-day warranty and a worldwide network of factory-trained service specialists.

Technical summary

Media 1/2-in. tape - all reel sizes, autoloading

Formats 6250/3200/1600/800 bpi
 GCR/DDPE/PE/NRZ.

Speed 125 & 42.5 ips

Reposition

time

980 ms (max.).

Rewind

speed

320 ips average (150 ips archive).

Interface Cipher / Pertec

with optional 1 MB cache and up to 1.2 MB/s data rate.

or Standard SCSI (8 bit)

2 MB/s asynchronous.

Single-ended or differential,

512 K buffer.

Full arbitration, disconnect/reconnect.

Command set includes copy, write/read buffer, send/receive diagnostics.

or Super SCSI (SCSI-2)

As Standard SCSI but with up to 2 MB buffer.

FAST SCSI implementation:

10 MB/s synchronous

7 MB/s asynchronous.

Wide SCSI (SCSI-3)

Optional connectivity facility

Block size No restriction.

MTBF > 25,000 hours.

MTTR < 30 minutes.

Power 100/120 V, 220/240 V a.c.

-15 +10%, 48-62 Hz, 200 VA

(50 VA standby),

48 V d.c. (optional).

Dimensions

Desktop H245 mm x W482 mm x D650 mm

(9.65 in. x 19.00 in. x 25.60 in.)

Rack-mounted H220 mm x W444 mm x D589

mm

(8.67 in. x 17.48 in. x 23.12 in.)

Weight 37kg (81.4 lb) desktop,

35 kg (77 lb) rack-mounted.

Pinetree Peripherals 1nc

A World Leader In Tape Technology

9-Track Tape Systems M9914

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