The versatile vertical

M4 Data's high-performance, vertically mounted 9-track tape drive, the 9914V, is derived from the widely acclaimed horizontal version, the 9914. The 9914V caters for cabinet depths of less than 10 inches (229 mm) and, with a 48 V d.c. supply option, is particularly suitable for use in telecommunications applications. Like the 9914, the 9914V excels in meeting the data interchange, data conversion, archiving and fast backup/restore requirements of most types of computer. It combines superb tape handling and outstanding performance with reliability of a very high order. It is also easy to use and service and offers a remarkably low cost of ownership. In short, it has all the qualities that make M4 Data's products renowned throughout the world.

Industry-leading features

The 9914V has the same industry-leading features as the horizontal 9914. These include: reading and writing in quad density; dual-speed transfer rate of 125 and 42 ips; fast rewind speed of 320 ips; buffered Pertec/Cipher or SCSI interface; burst rates up to 10 MB/s; a seismic mode to maintain tension in 'sticky tape' situations, and an extensive diagnostic capability.

A front-panel selection facility, with an alpha-numeric display, enables easy connection to virtually all computers - PC, workstation or mainframe. And, consistent with its universal appeal, the 9914V can display its messages in English, French, German, Spanish and Dutch

Fast SCSI

As another innovation, the 9914V is now available with Fast SCSI (SCSI-2) — an optional feature designed to provide a significant improvement in throughput and efficiency — and a Wide SCSI (SCSI-3) connectivity option.

An interchangeable card provides up to 2 megabytes of buffer, which allows the 9914V to closely emulate the performance of a start/stop drive, but with the inherent advantages of a streaming device. Single-ended and differential drivers on the same card provide more flexibility. In addition, Fast SCSI allows transfer rates of up to 10 MB/s, synchronously, and 7 MB/s asynchronously.

Automatic tape loading

Not only does the 9914V accept all tape reel sizes, but its straight tape path and air-loading system allow tape to be loaded automatically and the drive put on-line in ultra-fast time. In fact, the 9914V is the only vertically oriented streamer to have an auto-loading capability. And the drive is whisper quiet in operation.

Best reliability rating

The design excellence of the 9914V ensures absolute reliability. Few moving parts, and the use of surface-mount VLSI, contribute to an MTBF in excess of 23,000 hours.

Advanced mechanical design, *super-stable precision aluminum tape path,* ceramic tape guides that don't touch the tape, and fail-safe over-tension protection, guarantee gentle and accurate handling —with longer tape life, superb tape/head alignment and less risk of data loss.

Product standards

The 9914V is certified as meeting the stringent Bellcore standards covering product safety, reliability and flammability for telecommunications applications, and also satisfies international regulatory requirements for safety and EMC.

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. All FRUs are accessible from the front of the drive.

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.

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, auto-loading
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 blt)** 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 > 23,000 hours.
MTTR < 30 minutes.
Temperature +10 to +40$_o$ C
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 H610 mm x W482 mm x D330 mm (24 in. x 19.00 in. x 13 in)
Weight 37kg (81.4 lb)

Pinetree Peripherals 1nc
A World Leader
In Tape Technology

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