

## 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 M4 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; dual-speed 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. Its 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 fail-safe 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.

## M4's 9-track product family

Besides the 9914, the M4 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

M4 provides first-class field support through a standard two-year warranty and a world-wide network of factory-trained service specialists.

## Technical summary

<b>Media</b>	1/2-in, tape - all reel sizes, auto-loading
<b>Formats</b>	6250/3200/1600/800 bpi GCR/DDPE/PE/NRZ.
<b>Speed</b>	125 & 42.5 ips
<b>Reposition time</b>	980 ms (max.).
<b>Rewind speed</b>	320 ips average (150 ips archive).
<b>Interface</b>	<b>Cipher / Pertec</b> with optional 1 MB cache and up to 1.2 MB/s data rate.
	<b>Standard SCSI (8 bit)</b> 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.
	<b>Super SCSI (SCSI-2)</b> As Standard SCSI but with up to 2 MB buffer. FAST SCSI implementation: 10 MB/s synchronous 7 MB/s asynchronous.
	<b>Wide SCSI (SCSI-3)</b> Optional connectivity facility
<b>Block size</b>	No restriction.
<b>MTBF</b>	> 25,000 hours.
<b>MTTR</b>	< 30 minutes.
<b>Power</b>	100/120 V, 220/240 V a.c. -15 +10%, 48-62 Hz, 200 VA (50 VA standby), 48 V d.c. (optional).
<b>Dimensions</b>	
<b>Desktop</b>	H245 mm x W482 mm x D650 mm (9.65 in. x 19.00 in. x 25.60 in)
<b>Rack-mounted</b>	H220 mm x W444 mm x D589 mm (8.67 in. x 17.48 in. x 23.12 in.)
<b>Weight</b>	37kg (81.4 lb) desktop, 35 kg (77 lb) rack-mounted.

**M4 Data**  
**A World Leader**  
**In Tape Technology**

For further information contact:

**M4 Data Ltd.**  
 Lyon way  
 Frimley Road  
 Camberley  
 Surrey GU16 SET  
 England  
**Tel: (44) 1276 63401**  
**Fax: (44)127629785**  
[Sales@m4data.co.uk](mailto:Sales@m4data.co.uk)

**M4 Data Inc.**  
 4451B Enterprise court  
 Melbourne  
 Florida 32924  
 USA  
**Tel: (1) 407 255 0666**  
**Fax: (1)407253 0970**  
[Sales@m4data-usa.com](mailto:Sales@m4data-usa.com)

**M4 Data Inc.**  
 615 North Main Street  
 Suite 677  
 Longmont  
 Colorado 80501  
 USA  
**Tel: (1) 307 632 9957**  
**Fax: (1)307 632 9982**  
[Sales@m4data-usa.com](mailto:Sales@m4data-usa.com)

**M4 Data GmbH**  
 Ludwig-Wagner-Strasse 41a  
 D-691 68 wiesloch  
 (bei Heidelberg)  
 Germany  
**Tel: (49) 6222 9228-0**  
**Fax: (49) 6222 9228-22**  
[Sales@m4data.de](mailto:Sales@m4data.de)

**M4 Data (India)**  
**#103**  
 6th Cross, 3rd Main  
 R.M.V. Second Stage  
 Bangalore 560-094  
 India  
**Tel: (91)803411405**  
**Fax: (91)80341 6930**  
[Sales@qiasbq01.vsnl.net.in](mailto:Sales@qiasbq01.vsnl.net.in)

**M4 Data Ltd.**  
 Beijing Office  
 Room 57246-9, Building No.7  
 West Wing, xi Yuan Hotel  
 Beijing 100029, China  
**Tel: (86)10 6831 3388**  
**ext. 57246 to 57249**  
**Fax: (86)1068351665**