

Optical media are acknowledged to the next big wave in the continued advancement of computing performance. IBM is at the forefront of optical component development with this new Rewritable Optical Disk Drive, plus Rewritable or Read-only Optical Cartidges, which provide over 80 times the storage of standard 3.5-inch, 1.44 MB floppy disks.

IBM 3.5-inch Rewritable Optical Disk Drive and Cartridges



he IBM MD 3125A 3.5-inch Rewritable Optical Disk Drive and Cartridges set a new standard for efficient, high-volume data storage, with a capacity and portability designed to meet the needs of tomorrow's systems.

The IBM Rewritable Optical Disk Drive is the industry's most advanced 3.5-inch formfactor storage device. It attaches to a host system using the SCSI-2 interface. The 127 MB IBM Rewritable Optical Cartridge conforms to the ANSI-developed standards for optical media. The disk drive accepts either a 3.5-inch IBM Rewritable Optical Cartridge, with up to 127 MB formatted capacity (which may be written and read many times), or a 3.5-inch IBM Read-only Optical Cartridge (O-ROM) with up to 122 MB. (Optical read-only media is intended for mass duplication and distribution – for example, of educational materials or parts catalogues.)

Both cartridges are equivalent in size to the standard 3.5-inch, 1.44 MB floppy disk, yet have a storage capacity over 80 times greater.

Specifications

IBM MD 3125A 3.5-inch Rewritable Optical Disk Drive

Seek time

Average

60 ms

Track/Track

1 ms

Average latency

16.7 ms

Data transfer rate

Disk to buffer (sync) 4.0 MB/s

Buffet to host (async) 1.5 MB/s

Disk rotation speed

1,800 rpm

Reliability

Hard error rate

>1012 bits/hard error

MTBF

30,000 POH

Physical size

Width

101.6 mm

Height

41.3 mm

Depth of drive Depth of card

146.0 mm 169.0 mm

Weight

0.75 kg

DC power requirements

Nominal supply

5V

±5% ±5%

Tolerance (incl. ripple) Supply current (idle) rms

0.94A 1.25A

12V

Supply current (max) rms

1.56A 1.73A

Total power consumption rms

Idle

16.1W

Max

23.0W

Temperature

Operating

+10 to +10°C

Storage

0 to ±60°C

Shipment

-10 to ±60°C

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Relative humidity (non-condensing)

Operating

8 to 80%

Non-operating

5 to 95%

Maximum wet bulb

Operating

26.7°C

Storage/shipping

29.4°C

Altitude

Operating

0 to 2,133 metres

Non-operating

0 to 12,000 metres

Shock

Operating

5G (11 ms)

Non-operating

35G (11 ms)

Vibration (operating)

0.25G (1 to 500 Hz)

IBM Rewritable Optical Disk Cartridge and IBM Read-only Optical Disk Cartridge

User storage capacity

Rewritable

127 MB

Read-only

122 MB

Track density

15,900 tracks/inch

Bit density

24,400 bits/inch

Total number of tracks

10,000

Track format

Spiral (CAV) CCS

Tracking provision

Number of sectors per track 25

Sector length

512 bytes

Standard

ANSI X 3B11

(Project 736-D)

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