



# Optical

## MCD3130SS 1.3GB Magneto- Optical Drive

The MCD3130SS magneto-optical drive delivers an industry-leading capacity of 1.3 gigabytes on a single, rewritable 3.5" disk.

- Industry-leading 1.3GB capacity
- Utilizes Magnetic Super Resolution (MSR) technology
- Fast SCSI-2 interface
- Unlimited rewrite capability on MO disks
- Data transfer rate up to 5.9MB/sec.
- Reads and writes to 1.3GB, 640MB, 540MB, 230MB and 128MB disks

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*Mobile*

.....  
*Desktop*

.....  
*Enterprise*

Fujitsu takes magneto-optical (MO) technology to a new level with the MCD3130SS, the world's first 1.3GB 3.5" magneto-optical drive. This state-of-the-art, high-performance SCSI drive stores up to 1.3GB on a single MO disk, provides a 28 millisecond seek time, and boasts a Mean-Time-Between-Failure (MTBF) of 120,000 hours.

### High-Performance Storage

The MCD3130SS optical drive provides high-capacity and high-reliability storage. It is ideal for users who require high density and performance for multimedia, audio, video, archiving or industrial applications such as medical imaging and engineering. With data transfer rates up to 5.9MB/sec., this drive meets the requirements of today's demanding applications.

Fujitsu is able to achieve the highest capacity of any 3.5" magneto-optical drive with the advent of Magnetic Super Resolution (MSR) technology.

MSR enables the drive to read and write to 1.3GB disks at nearly twice the linear bit density, while maintaining full compatibility with conventional MO disks.

### Protecting Investments in Data

Fujitsu MO disks are virtually indestructible, and highly resistant to the problems that plague magnetic media. Magneto-optical disks offer tremendous benefits for long-term storage. They can be rewritten more than 10 million times and withstand hostile environmental conditions such as

shock, vibration, moisture, dust, and magnetic fields without loss of data. Each disk comes with a lifetime warranty and because of their ruggedness, they make the perfect medium for office, home or industry.

### Multiple Media Options

The MCD3130SS is read/write compatible with 1.3GB GIGAMO disks, all 3.5" ISO MO disks—640MB, 540MB, 230MB and 128MB—as well as overwrite (OW) media. No other storage solution offers as many options to tailor the media

selection to the application while providing such a high level of investment protection.

### About Fujitsu Computer Products of America

Fujitsu Computer Products of America, Inc. is a wholly owned subsidiary of Fujitsu Limited, one of the world's largest computer companies with \$37.7 billion in worldwide revenue. Benefiting from Fujitsu Limited's \$3 billion annual investment in research and development, Fujitsu Computer Products provides innovative solutions for the U.S. marketplace. Current product offerings include high-performance hard disk drives, tape drives, magneto-optical drives, high-volume scanners, and printers.

| MCD3130SS Specifications   |                                      |                                  |              |              |              |
|----------------------------|--------------------------------------|----------------------------------|--------------|--------------|--------------|
| Model                      | MCD3130SS                            |                                  |              |              |              |
| Functional Specifications  |                                      |                                  |              |              |              |
| Disk format                | ISO 10090                            | ISO 13963                        | ISO 15041    | GIGAMO       |              |
| Storage capacity by disk   | 128 MB                               | 230 MB                           | 540 MB       | 640 MB       | 1.3 GB       |
| Sector size                | 512 bytes                            |                                  |              | 2,048 bytes  |              |
| Random seek time           | 28 ms                                |                                  |              |              |              |
| Average latency time       | 6.7 ms                               |                                  |              |              | 9.3 ms       |
| Rotational speed           | 4,500 RPM                            |                                  |              |              | 3,214 RPM    |
| Recording density (BPI)    | 24,400                               | 29,300                           | 52,900       | 89,100       |              |
| Track density (TPI)        | 15,875                               | 18,275                           | 23,090       | 28,200       |              |
| Data transfer rate         | Drive                                | 1.3 MB/s                         | 1.6-2.6 MB/s | 2.9-4.9 MB/s | 3.4-5.9 MB/s |
|                            | SCSI-2 Interface                     | 5 MB/s (async)<br>10 MB/s (sync) |              |              |              |
| Recording code             | 2-7 RLL                              |                                  |              | 1-7 RLL      |              |
| Interface                  | SCSI-2 (single-ended)                |                                  |              |              |              |
| Average load time          | 6 sec.                               |                                  |              |              | 10.5 sec.    |
| Average unload time        | 3 sec.                               |                                  |              |              |              |
| Buffer size                | 2 MB                                 |                                  |              |              |              |
| Physical Specifications    |                                      |                                  |              |              |              |
| Power requirements         | 5VDC±5%: 1.2A (avg.); 2.5A (max.)    |                                  |              |              |              |
| Power consumption          | Operating                            | 5.6 W                            |              |              |              |
|                            | Ready                                | 4.5 W                            |              |              |              |
|                            | Sleep Mode                           | 1.0 W                            |              |              |              |
| Dimensions (H x W x D)     | 25.4 x 101.6 x 150.0 mm (with bezel) |                                  |              |              |              |
| Weight                     | 465 g (with bezel)                   |                                  |              |              |              |
| Ambient temperature        | Operating                            | 5°C - 45°C                       |              |              |              |
|                            | Non-operating                        | 0°C - 50°C                       |              |              |              |
| Relative humidity          | 10-85% (non-condensing)              |                                  |              |              |              |
| Vibration                  | Operating                            | 0.4G (5-500Hz)                   |              |              |              |
|                            | Non-operating                        | 1.0G (5-500Hz)                   |              |              |              |
| Shock                      | Operating                            | 2.0G (5 ms)                      |              |              |              |
|                            | Non-operating                        | 50G (5 ms)                       |              |              |              |
| Altitude                   | Operating                            | 3,000 m                          |              |              |              |
|                            | Non-operating                        | 12,000 m                         |              |              |              |
| Reliability Specifications |                                      |                                  |              |              |              |
| MTBF                       | 120,000 hours                        |                                  |              |              |              |
| Component life             | 5 years                              |                                  |              |              |              |

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