

3.5-inch Magneto-Optical Disk Drives

**MCE3130SS/MCD3130AP**

Available in Ultra SCSI / ATAPI
versions

- 1.3 GB formatted capacity on a single-sided 3.5" disk
- Internal data transfer rate up to 5.9 MB/sec.
- Conforms to new GIGAMO standard adopting MSR technology (1.3 GB)
- Full read/write compatibility with conventional ISO standard media (640/540/230/128 MB), which allows the widest media selection on the most rugged removable disks.
- Available in Ultra SCSI/ATAPI versions



GIGAMO is a new technology standard for 3.5" MO drives and media with over 1 GB capacity. GIGAMO has full read/write compatibility with conventional ISO standard (128/230/540/640 MB).

Fujitsu's new MCE3130SS/MCD3130AP drives have achieved the highest capacity of any 3.5-inch magneto-optical drive by using new Magnetically-induced Super Resolution (MSR) technology.

MSR technology allows the drives to read and write any GIGAMO standard 1.3 GB disk at twice the liner bit density. The MCE3130SS/MCD3130AP drives also deliver a faster data transfer rate of up to 5.9 MB/sec, and provides 23 millisecond seek time. The MCE3130SS/MCD3130AP drives also retains full read/write compatibility with ISO/IEC 3.5-inch disks ranging from original 128 MB to current 640 MB.

Protecting Investments in Data
MO disks are nearly indestructible, and comple-

tely immune from the problems that plague magnetic media. Shock, vibration, moisture, dust, x-rays and magnetic fields can't destroy data stored on an MO disk. And because of their ruggedness, these disks make the perfect medium for office, home or industry. MO disks can be rewritten an unlimited number of times.

High Performance Rewritable Storage
The MCE3130SS/MCD3130AP provide two high performances depending on the MO disk to use. When using a standard 1.3 GB GIGAMO disk,

the maximum transfer rate is 5.9 MB/sec. with 3,214 rpm rotational speed. When using a standard ISO disk, the maximum transfer rate is 3.9 MB/s with 4,500 rpm rotational speed, which is 25% faster than the conventional MCX3064, 640 MB MO series.

Broad Disk Options
The MCE3130SS/MCD3130AP read/write compatibility with all ISO standard disks mean big user benefits. Protecting your previous investment of date on ISO standard disk comes first. The second big benefit is that you have the broad disk options among today's removable products. No other removable solution offers you such a variety of capacity selection, including 128, 230, 540, 640 MB and 1.3 GB, depending on the usage.

MCE3130SS/MCD3130AP Specifications

Functional Specifications		MCE3130SS/MCD3130AP				
		1300 MB	640 MB	540 MB	230 MB	128 MB
Storage capacity by disk						
Sector capacity		2,048 bytes			512 bytes	
Standard		-		ISO/IEC 15041	ISO/IEC 13963	ISO/IEC 10090
Interface		Ultra SCSI (MCE3130SS)/ATAPI (MCD3130AP)				
Data transfer rate	Drive/4500 rpm	3.4-5.9 MB/s	2.9-4.8 MB/s	2.9-4.9 MB/s	1.6-2.6 MB/s	1.3 MB/s
	Ultra SCSI Interface	5 MB/s (async.); 20 MB/s (sync.)				
	ATAPI Interface	16 MB/s (PIO mode with IORDY), 16 MB/s (Multi-word DMA with wait)				
Recording density (BPI)		89,100	52,900	29,300	29,300	24,400
Track density (TPI)		28,200	23,090		18,275	15,875
Seek time	Random seek	23 ms (typ.) (MCE3130SS)/28 ms (typ.) (MCD3130AP)				
	Full stroke	44 ms (typ.) (MCE3130SS)/60 ms (typ.) (MCD3130AP)				
Rotational speed		3,214 rpm	4,500 rpm			
Average Latency time		9.3 ms	6.6 ms (typ.) (MCE3130SS)/7.0 ms (typ.) (MCD3130AP)			
Recording code		1 - 7 RLLC			2 - 7 RLLC	
Load/unload time		12 sec./4 sec.	8 sec./4 sec.			
Buffer size		2 MB				

Physical Specifications

Power requirement		5V±5% 1.2A (ave.); 2.5A (max.)				
Power Consumption	Random	5.3 W typ. (MCE3130SS)/5.6 W typ. (MCD3130AP)				
	Sleep	0.5 W typ. (MCE3130SS)/1.0 W typ. (MCD3130AP)				
Dimensions		25.4 x 101.6 x 150.0 mm				
Weight		480 g (MCE3130SS)/465 g (MCD3130AP)				
Ambient temperature	Operation	5°C - 45°C				
	Non-operation	0°C - 50°C				
Relative humidity	Operation	10 - 85% (non-condensing)				
	Non-operation	10 - 85% (non-condensing)				
Vibration	Operation	3.92 m/s ² (0.4 G) (5 to 500 Hz, sine sweep)				
	Non-operation	9.8 m/s ² (1.0 G) (5 to 500 Hz, sine sweep)				
Shock resistance	Operation	19.6 m/s ² (2.0 G) (10ms, half sine pulse)				
	Non-operation	49 m/s ² (5.0 G) (10ms, half sine pulse)				
Altitude	Operation	Less than 3,000 m				
	Non-operation	Less than 12,000 m				
Acoustic noise		Less than 38 dB				
Air flow requirement		More than 0.02 m ³ /minute				

Reliability Specification

MTBF		120,000 hours
MTTR		< 30 minutes
Component life		5 years

Specifications are subject to change without notice. For the latest information, contact your local Fujitsu representative. All brand names and product names are trademarks and registered trademarks of their respective holders.

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