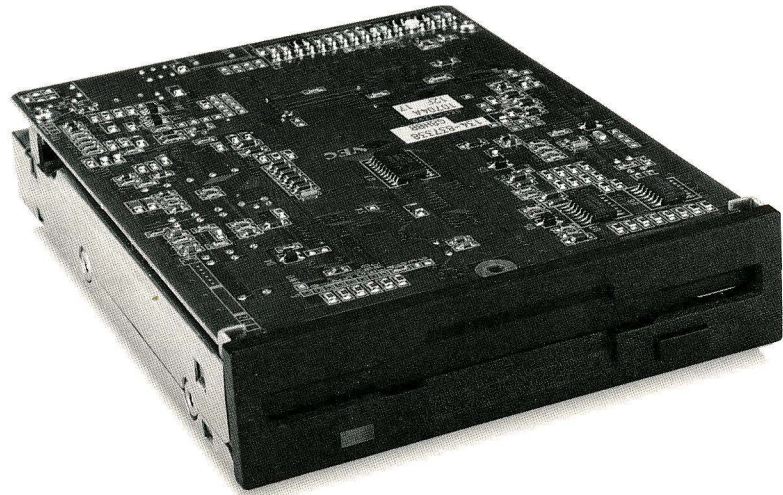


NEC FD2135H 3.5" High Capacity Floppy Disk Drive

The next industry-standard floppy disk drive

FEB 24 1994

- 21.4 MB of storage on 3.5" diskette
- Read/write compatible with 720 KB and 1.44 MB drives
- Read compatible with 2.88 MB drives (optional)
- IDE or SCSI interface
- 4.5 Mb/s transfer rate
- 30,000 HR MTBF



NEC, an industry leader in providing innovative and cost-effective storage products, now offers the FD2135H, a 3.5" floppy drive with a formatted capacity of 21.4MB. With the cooperation of the major floppy drive and diskette manufacturers, the FD2135H technology will become the next industry-standard for high-capacity floppy disk drives.

Available with either an IDE or SCSI interface, the FD2135H offers the installation flexibility to satisfy the requirements of both PCs and workstations. And the 21.4MB on a single diskette satisfies the storage requirements of many applications, including desktop publishing, medical imaging, computer-aided design and software distribution.

In addition to reading and writing 720KB and 1.44MB diskettes, the FD2135H is capable of reading 2.88MB diskettes, combining the compatibility with previous capacity standards and the versatility of high-capacity removable storage.

A closed-loop sector-servo system that uses preformatted metal-powder media increases the FD2135H track density to 542 tpi. Utilizing a combination metal-in-gap (MIG) and ferrite read/write head, the linear density is increased to 52,539 bits per inch (bpi) in the 21MB mode.

The FD2135H uses the field proven linear stepper motor developed by NEC. The LPM motor technology offers a significant reduction in weight and noise while demonstrating higher reliability and greater accuracy than traditional stepper motors.

With the 21MB FD2135H, NEC and our strategic drive and media partners, offer the first viable solution to the computer industry's increasing requirement for cost-effective, high-capacity removable storage.

NEC

FD2135H Disk Specifications

	720-KB Mode	1.44-MB Mode	21.4 MB Mode
Unformatted Capacity	1 MB	2 MB	28.1 MB
Formatted Capacity	720 KB	1.44 MB	21.4 MB
Data Transfer Rate (Mb/sec)	.25	.5	4.5/3.0
Rotational Speed (rpm)	300	300	600
Recording Density			
Bit density (bpi)	8,717	17,434	52,539
Track density (tpi)	135	135	542
Tracks/surface	80	80	326
Access Time	95 ms	95 ms	319 ms
Recording Method	MFM	MFM	2-7 RLL
DC Power Requirements	+5V	+5V	+5V
Power Dissipation (watts)			
Read/Write mode	2.5 W	2.5 W	3.0 W
Stand-by mode	.5 W	.5 W	.5 W
Environmental Requirements			
Operating temperature	39° to 115°F (4° to 46°C)	39° to 115°F (4° to 46°C)	39° to 115°F (4° to 46°C)
Non-operating temperature	-4° to 140°F (-22° to 60°C)	-4° to 140°F (-22° to 60°C)	-4° to 140°F (-22° to 60°C)
Operating humidity	20% to 80%	20% to 80%	20% to 80%
Non-operating humidity	10% to 90%	10% to 90%	10% to 90%
Dimensions			
Height	1.0 in. (25.4 mm)	1.0 in. (25.4 mm)	1.0 in. (25.4 mm)
Width	4.0 in. (101.6 mm)	4.0 in. (101.6 mm)	4.0 in. (101.6 mm)
Depth	5.25 in. (130 mm)	5.25 in. (130 mm)	5.25 in. (130 mm)
Weight	.87 lb (380 g)	.87 lb (380 g)	.87 lb (380 g)
Reliability			
MTBF	30,000 POH	30,000 POH	30,000 POH
MTTR	<30 minutes	<30 minutes	<30 minutes
Device life	15,000 POH or 5 years	15,000 POH or 5 years	15,000 POH or 5 years