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# NEC FD1148H 3½-Inch Low-Profile Floppy Disk Drive

Compact, lightweight, reliable  
data storage for desktop  
computers.

- 1.44-MB formatted storage
- Weighs only 10 oz
- Measures only .78-inches high
- 26-pin or 34-pin interface
- Read/write compatible with 720-KB drives
- Consumes only .015 watts in standby mode
- 30,000 HR MTBF
- Available with 1" high Bezel



**NEC**

NEC's FD1148H responds to industry demands for smaller, lighter, more reliable, and power-efficient storage devices.

The 3½ -inch floppy disk drive features 1.44 MB of formatted storage as well as read/write compatibility with 720 KB drives. Only .78-inch high, the 10 oz. drive weighs 45% less than a standard 1-inch microfloppy drive.

The FD1148H uses a linear stepper motor. This NEC-proprietary design

features no rotating parts, increased positioning precision, and low power consumption.

In addition to height and weight reduction, FD1148H power consumption is only 1.5 watts (W) in read/write mode. After 16 ms without a step pulse, the drive automatically enters stand-by mode where it uses just .015 W.

Integrating the floppy disk drive is easy with a choice between a 26- or 34-pin interface. A single 5-V power line is

included with the 26-pin interface cable. The 34-pin version requires a separate power cable.

A 30% reduction of mechanical parts in the FD1148H contributes to its increased reliability and shock resistance. The shock specifications are 5G operating and 100G non-operating.

The compact and power-efficient FD1148H weighs in as the ideal data storage solution for desktop computers.

### FD1148H Disk Specifications

	720-KB Mode	1.44-MB Mode
<b>Unformatted Capacity</b>	1 MB	2 MB
<b>Formatted Capacity</b>	720 KB	1.44 MB
<b>Data Transfer Rate (Kb/sec)</b>	250	500
<b>Rotational Speed (rpm)</b>	300	300
<b>Recording Density</b>		
Bit density (bpi)	8,717	17,434
Track density (tpi)	135	135
Number of tracks	160	160
<b>Seek Time</b>		
Track-to-track	3 ms	3 ms
<b>Settling Time</b>	15 ms	15 ms
<b>DC Power Requirements</b>	+5V	+5V
<b>Power Dissipation (watts)</b>		
Read/Write mode	1.5 W	1.5 W
Stand-by mode	.015 W	.015 W
<b>Environmental</b>		
Operating temperature	39° to 115°F (4° to 46°C)	39° to 115°F (4° to 46°C)
Non-operating temperature	-4° to 140°F (-20° to 60°C)	-4° to 140°F (-20° to 60°C)
Relative operating humidity	20% to 80%	20% to 80%
Non-operating humidity	10% to 90%	10% to 90%
<b>Dimensions</b>		
Height	.78 in. (19.8 mm)	.78 in. (19.8 mm)
Width	4.0 in. (101.6 mm)	4.0 in. (101.6 mm)
Depth	5.25 in. (134 mm)	5.25 in. (134 mm)
Weight	.625 lb (290 g)	.625 lb (290 g)
<b>Reliability</b>		
MTBF	30,000 POH	30,000 POH
MTTR	< 30 minutes	< 30 minutes
Device life	15,000 POH or 5 years	15,000 POH or 5 years