NEC FD1139H-EXT 3.5" External Floppy Disk Drive

Power efficiency and high reliability in the smallest external drive available

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Provides 1.44 MB of external storage

• Weighs only 11.3 oz.

Measures only .82" high;
4.4" wide and 5.4" long

 Consumes only .015 watts in the stand-by mode

Optional Interface connectors

30,000 POH MTBF



NEC's FD1139H, the smallest 3.5" floppy drive available for notebook PCs, is now available as an external drive for sub-notebook and pen-based computers. The FD1139H-EXT offers 1.44 MB of storage and read/write compatibility with 720 KB drives. Only .82" high, the 11.3 oz. drive weighs approximately 50% less than standard 3.5" external floppy drives.

Using NEC's proprietary linear stepper motor, the FD1139H-EXT features very low power consumption and increased positioning accuracy in the quietest drive available. The FD1139H-EXT consumes only 1.3 watts (W) in the read/write mode and just .015W in the stand-by mode, offering the power efficiency required by sub-notebook and penbased computers.

The FD1139H-EXT offers high reliability with an industry leading 30,000 POH MTBF and increased durability with a non-operating shock specification of 100G. In order to satisfy the floppy drive variations inherent to an emerging market, the FD1139H-EXT is available with your choice of interface connector.

Light weight, power efficiency, reliability and compatibility. All of the external storage requirements for the next generation of sub-notebook and pen-based computers are designed into NEC's FD1139H-EXT.



FD1139H-EXT Disk Specifications

		720-KB Mode	1.44-MB Mode
Unformatted Capacity	1	1 MB	2 MB
Formatted Capacity		720 KB	1.44 MB
Data Transfer Rate (Kb/sec)		250	500
Rotational Speed (rpm)		300	300
Recording Density			
	ensity (bpi)	8,717	17,434
Track	density (tpi)	135	135
Num	ber of tracks	160	160
Seek Time			
Track	k-to-track	3 ms	3 ms
Settling Time		15 ms	15 ms
DC Power Requirement		+5V	+5V
Power Dissipation (wat	ts)		
Reno	l/Write mode	1.3 W	1.3 W
	d-by mode	.015 W	.015 W
Environmental			
Oper	ating temperature	39° to 115°F (4° to 46°C)	39° to 115°F (4° to 46°C)
	operating temperature	-4° to 140°F (-20° to 60°C)	-4° to 140°F (-20° to 60°C)
	tive operating humidity	20% to 80%	20% to 80%
	operating humidity	10% to 90%	10% to 90%
Shock			
Oper	ational	10G	106
	operational (with shipping diskette)	100G	100G
Vibration			
Oper	ational	0.5G, 5 to 500 Hz	0.5G, 5 to 500 Hz
	operational	2.0G, 5 to 500 Hz	2.0G, 5 to 500 Hz
Dimensions			
Heig	ht	.82" (21 mm)	.82" (21 mm)
Widt	h	4.4" (111 mm)	4.4" (111 mm)
Dept		5.4" (136.5 mm)	5.4" (136.5 mm)
Weig		11.3 oz. (321.2g)	11.3 oz. (321.2g)
Reliability			
MTB		30,000 POH	30,000 POH
MTTM		<10 minutes	< 10 minutes
Devid	ce life	15,000 POH or 5 years	15,000 POH or 5 years





