

## Fireball™ EX

## Specifications

Fireball EX	3.2	5.1	6.4	10.2	12.7
Form Factor	3.5 inch (low profile)	3.5 inch (low profile)	3.5 inch (low profile)	3.5 inch (low profile)	3.5 inch (low profile)
Interfaces	Ultra ATA	Ultra ATA	Ultra ATA	Ultra ATA	Ultra ATA
Formatted Capacity (MB <sup>1</sup> )	3,228	5,130	6,448	10,262	12,750
<b>Disk Drive Configuration</b>					
Recording Surfaces	2	3	4	6	8
AT Logical					
Cylinders	6,256	10,602	13,328	19,885	24,704
Heads	16	15	15	16	16
Sectors	63	63	63	63	63
<b>Performance Specifications</b>					
Typical Seek Times <sup>2</sup> (ms)					
Average			9.5		
Track-to-Track			2		
Full Stroke			18		
Average Rotational Latency (ms)			5.56		
Rotational Speed (RPM)			5,400		
Internal Data Rate (Mb/sec)			Up to 187		
Data Transfer Rates (Buffer-to-Host)					
ATA (MB/sec)					
Ultra DMA/33			33.3		
PIO Mode 4			16.6		
DMA Mode 2			16.6		
Buffer Size (KB)					
Ultra ATA			512		
Typical Power On to Drive Ready (sec)			9.5		
<b>Reliability Specifications</b>					
Start/Stop Cycles (Ambient)			50,000		
Nonrecoverable Data Errors (per bits read)			<10 per 10 <sup>14</sup>		
Warranty <sup>3</sup> (years)			3		
<b>Physical Specifications</b>					
Dimensions - inches (mm)					
Width			4.00 (101.6)		

Length	5.75 (146.1)
Height	1.00 (25.4)
Weight - pounds (kg)	<1.2 (<0.55)

### Environmental Limits

Operating	
Temperature (oC)	5 to 55
Non-Condensing Humidity (%)	10 to 90
Non-operating	
Temperature (oC)	-40 to 65
Non-Condensing Humidity (%)	5 to 95
Idle Sound (typ)	
Pressure (dBA)	32
Power (bels)	3.6

### Power Specifications

Nominal Voltage (V)	+5/+12
Voltage Margin (%)	±5/±10
Typical Power Draw (W)	
Idle	6.0
Operating <sup>4</sup>	11.0
Peak Current (mA on +5V/+12V)	700/1,700

<sup>1</sup>. Quantum defines a megabyte (MB) as 10<sup>6</sup> or 1,000,000 bytes.

<sup>2</sup>. Seek times are at nominal conditions and include settling.

<sup>3</sup>. This warranty is standard when products are purchased directly through authorized Quantum distributors/dealers. Unless otherwise agreed, a one-year warranty is provided to all OEMs purchasing directly from Quantum. End-user warranties provided by computer manufacturers may vary.

<sup>4</sup>. Operating is defined as 40% seeking, 30% reading, 10% writing, and 20% idle.