

Fireball™ SE

Specifications

Fireball SE	2.1	3.2	4.3	6.4	8.4
Form Factor	3.5 inch (low profile)	3.5 inch (low profile)			
Interfaces	Ultra ATA Ultra SCSI-3	Ultra ATA Ultra SCSI-3			
Formatted Capacity (MB ¹)	2,111	3,228	4,310	6,448	8,455
Disk Drive Configuration					
Recording Surfaces	2	3	4	6	8
AT Logical Cylinders	4,092	6,256	14,848	13,328	16,383
Heads	16	16	9	15	16
Sectors	63	63	63	63	63
Performance Specifications					
Typical Seek Times ² (ms)					
Average				9.5	
Track-to-Track				2	
Full Stroke				20	
Average Rotational Latency (ms)				5.56	
Rotational Speed (RPM)				5,400	
Internal Data Rate (Mb/sec)				Up to 158	
Data Transfer Rates (Buffer-to-Host)					
Ultra ATA/-2Fast ATA(MB/sec)					
Ultra DMA/33				33.3	
PIO Mode 4				16.6	
DMA Mode 2				16.6	
Ultra SCSI-3 (Mb/sec)				20	
Buffer Size (KB)					
Ultra ATA				128	
Ultra				512	
Typical Power On to Drive Ready (sec)				15	
Reliability Specifications					
Start/Stop Cycles (Ambient)				40,000	
Nonrecoverable Data Errors (per bits read)				<10 per 10 ¹⁵	
Warranty ³ (years)				3	

Physical Specifications

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 (%) 5 to 85

Non-operating

Temperature (oC) -40 to 65

Non-Condensing Humidity (%) 5 to 95

Idle Sound (typ) (Quantum Fireball SE 8.4)

Pressure (dBA) 32

Power (bels) 3.7

Power Specifications

Nominal Voltage (V) +5/+12

Voltage Margin (%) $\pm 5/\pm 10$

Typical Power Draw (W) (Quantum Fireball SE 8.4)

Idle 6.0

Operating⁴ 11.0

Peak Current (mA on +5V/+12V) 700/1,700

1. Quantum defines a megabyte (MB) as 10^6 or 1,000,000 bytes.

2. Seek times are at nominal conditions and include settling.

3. 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.

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