Bigfoot™

Specifications

Bigfoot	1.2	2.1	2.5
Form Factor	5.25 inch (Ultra Slim-Line)		
Interface	Fast ATA-2 40-pin dual in-line		
Formatted Capacity (MB[1])	1,286	2,110	2,577
Disk Drive Configuration			
Disks	1		
Heads/Recording Surfaces	2	2	2
Tracks per Surface	5,738	4	4
Sectors per Track	149 to 276		
Bytes per Sector	512		
Track Density (tpi)	4,298		
Max. Flux Density (fci)	113,922		
Max. Recording Density (bpi)	107,221		
Encoding/Detection Method	16/17 PRML		
Performance Specifications			
Typical Seek Times[2] (ms)			
Average	15.5		
Track-to-Track	3.5		
Full Stroke	30.0		
Average Rotational Latency (ms)	8.33		
Rotational Speed (RPM)	3,600		
Internal Data Rate (Mb/sec)	48 to 84		
Data Transfer Rates (Buffer-to-Host)			
PIO Mode 4 (MB/sec)	16.6		
DMA Mode 2 (MB/sec)	16.6		
Buffer Size[3] (KB)	128		
Typical Power On to Drive Ready (sec)	11.5		

Reliability Specifications

Start/Stop Cycles (controlled)	20,000 with dynamic braking
Preventive Maintenance	Not required
Nonrecoverable Data Errors(per bits read)	<10 per 10^{15}
Error-Correction Method	160-bit Reed Solomon
Warranty[4] (years)	3

Physical Specifications

Dimensions - inches (mm)

Width	5.75 (146.05)	5.75 (146.05)	5.75 (146.05)
Length	8.0 (203.2)	8.0 (203.2)	8.0 (203.2)
Height	0.75 (19.05)	0.75 (19.05)	0.75 (19.05)
Weight – pounds (kg)	1.55 (0.711)	1.64 (0.752)	1.64 (0.752)

Environmental Limits

Operating

Temperature (oC)	0 to 55
Non-Condensing Humidity (%)	5 to 85
Maximum Wet Bulb (oC)	29
Shock (G, 11 ms)	10
Vibration (G, 5 to 200 Hz,	1
peak-to-peak	650 to 10,000
Altitude (ft.)	-40 to 75

Non-Operating

Temperature (oC)	5 to 95
Non-Condensing Humidity (%)	
Maximum Wet Bulb (oC)	46
Shock (G, 11 ms)	70
Vibration (G, 5 to 300 Hz, peak-to-peak)	2
Altitude (ft.)	-650 to 40,000

Idle Sound (typ)

Pressure (dBA)	34
Power (bels)	3.9

Power Specifications

Nominal Voltage (V)	+ 5 / + 12		
Voltage Margin (%)	± 5 / ± 10		
Typical Power Draw (W)			
Read/Write	5.0		
Standby/Sleep	1.0	5.5	5.5
Idle	4.0	1.0	1.0
Operating[5]	6.5	4.5	4.5
Peak Current (mA on +5/+12)	425/1400	7.0	7.0

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. Up to 41KB used for firmware.
4. 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.
5. Operating is defined as 40% seeking, 30% reading, 10% writing, and 20% idle.