Daytona™

Specifications

Daytona	127 / 170 / 256 / 341 / 514
Form Factor	2.5 inch
Interface	IDE-AT or SCSI-2
Formatted Capacity (MB)	127 / 170 / 256 / 341 / 514
Disk Drive Configuration	
Disks	
Daytona 127	1
Daytona 170 & 256	2
Daytona 341	3
Daytona 514	4
Heads/Recording Surfaces	
Daytona 127	2
Daytona 170	3
Daytona 256	4
Daytona 341	6
Daytona 514	8
Tracks per Surface	1704
Sectors per Track	54 to 92
Bytes per Sector	512
Track Density (tpi)	3100
Flux Density (fci)	53,7000
Recording Density (dpi)	71,6000
Encoding Method	RLL 1,7
Performance Specifications	
Standby to Drive Ready (sec)	
Daytona 127	2
Daytona 170 & 256	2.5
Daytona 341	2.8
Daytona 514	3
Typical Seek Times [2] (ms)	
Average	17
Track-to-Track	5

Full Stroke	24
Average Rational Latency (ms)	6.66
Rotational Speed (RPM)	4500
Internal Data Rate	
Disk-to-Buffer (Mb/sec)	22 to 36
Burst Transfer Rate (Buffer-to-Host)	
IDE-At (MB/sec)	13
SCSI-2 (MB/sec)	10
Buffer Size [3] (KB)	[128]
Interleave	1.1

Reliability Specifications

Projected Filed MTBF (hours)	3500000
Preventive Maintenance	Not Required
Uncorrectable Error Rate	<1 in 10^{14}
Error-Correction Method	Reed Solomon
Warranty (Years)	1

Physical Specifications

Dimensions- inches (mm)	
Width	2.75 (70)
Length	3.94 (100)
Height: Daytona 127, 170 & 256	0.5 (12.5)
Height: Daytona 341 & 514	0.75 (19)
Weight-ounces (gm)	
Daytona 127	4.4 (125)
Daytona 170	4.6 (130)
Daytona 256	4.6 (130)
Daytona 341	6.4 (180)
Daytona 514	6.6 (185)
Daytona 514	6.6 (185)

Environmental Limits

Operating	
Temperature ©	5 to 55
Non-condensing Humidity (%)	10 to 90
Shock (G, 11 ms)	10
Vibration (G, peak-to-peak)	1
Altitude (ft)	200 to 10,000
Non-Operating	

Temperature (ºC)	40 to 65
Non-condensing Humidity (%)	10 to 90
Shock[4] (G, 2 ms)	300
Vibration (G, peak-to-peak)	5
Altitude (ft.)	-200 to 40,000
Sound Pressure	
Maximum @ Idle (dBA)	33

Power Specifications

Nominal Voltage	+5
Voltage Margin (%)	±5
Typical Power Draw[5,] Standby (W)	0.2
Typical Power Draw[5,] Idle (W)	
Daytona 127, 170, & 256	1.2
Daytona 341 & 514	1.4
Typical Power Draw[5,] Active (W)	
Daytona 127, 170, & 256	1.9
Daytona 341 & 514	2.1
Operating Read/Write/Seed	
Daytona 127, 170, & 256	2.5 / 2.6 / 2.5
Daytona 341 & 514	2.6 / 2.8 / 2.7
Peak Spin-up Current (mA)	
Daytona 127, 170 & 341	1,200
Daytona 256 & 514	1,300

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. Upper 32KB used for firmware.
4. Full data recovery; other specifications may be affected.
5. Add 0.25W to SCSI versions for termination.
6. 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.