



MEDALIST

3.5 INCH

AFFORDABLE STORAGE CAPACITY
FOR DESKTOP PCs

2.1 - TO 6.5-GBYTE DISC DRIVES



MEDALIST

4,500-RPM MEDALIST DRIVES BRING MULTIMEDIA PERFORMANCE AND HIGH CAPACITIES AT AN EXCEPTIONAL VALUE

- Multimedia-Ready for full-screen, full-motion video playback and MMX
- ATA transfer rates up to 33.3 Mbytes per second with Ultra ATA
- Seek times as fast as 11 msec
- Easy installation with DiscWizard software and SeaShield labeling
- Three year limited warranty



| | ST32122A Medalist® 2122 | ST33220A Medalist 3220 | ST33232A Medalist 3232 | ST34342A Medalist 4342 | ST35130A Medalist 5130 | ST36540A Medalist 6540 |
|--|-------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| CAPACITY AND INTERFACE | | | | | | |
| Formatted Gbytes (512 bytes/sector) | 2.1 | 3.2 | 3.2 | 4.3 | 5.1 | 6.5 |
| Interface | Ultra ATA | ATA-3, Ultra ATA | Ultra ATA | Ultra ATA | ATA-3, Ultra ATA | ATA-3, Ultra ATA |
| PERFORMANCE | | | | | | |
| Internal Transfer Rate, ZBR (Mbytes/sec) | up to 87.8 | up to 106 | up to 87.8 | up to 87.8 | up to 106 | up to 106 |
| External Transfer Rate (Mbytes/sec) | up to 33.3 | 16.6/33.3 | up to 33.3 | up to 33.3 | 16.6/33.3 | 16.6/33.3 |
| Average Sustained Transfer Rate (Mbytes/sec) | >3.5 | >5.0 | >3.5 | >3.5 | >5.0 | >5.0 |
| Multisegmented Cache (Kbytes) | 128 | 128 | 128 | 128 | 128 | 128 |
| Track-to-Track, Read/Write (msec) | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Average Seek (msec) | 12.0 | 11.0 | 12.0 | 12.0 | 11.0 | 11.0 |
| Average Latency (msec) | 6.67 | 6.67 | 6.67 | 6.67 | 6.67 | 6.67 |
| Spindle Speed (RPM) | 4,500 | 4,500 | 4,500 | 4,500 | 4,500 | 4,500 |
| CONFIGURATION/ORGANIZATION | | | | | | |
| Discs/Heads | 2/4 | 2/4 | 3/6 | 4/8 | 3/6 | 4/8 |
| Bytes per Sector | 512 | 512 | 512 | 512 | 512 | 512 |
| Logical CHS | 4,092/16/63 | 6,253/16/63 | 6,253/16/63 | 8,894/15/63 | 10,585/15/63 | 13,446/15/63 |
| Recording Method | 2/3 (1,7) RLL | EPRML (16,17) | 2/3 (1,7) RLL | 2/3 (1,7) RLL | EPRML (16,17) | EPRML (16,17) |
| RELIABILITY/DATA INTEGRITY | | | | | | |
| MTBF (power-on hours) | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 |
| Contact Start-Stops (40°C) | 40,000 | 40,000 | 40,000 | 40,000 | 40,000 | 40,000 |
| SeaShield ESD, Impact protection | Yes | No | No | No | Yes | Yes |
| S.M.A.R.T. Capable | Yes | Yes | Yes | Yes | Yes | Yes |
| Nonrecoverable Read Errors per Bits Read | 1 per 10 ¹⁴ | 1 per 10 ¹⁴ | 1 per 10 ¹⁴ | 1 per 10 ¹⁴ | 1 per 10 ¹⁴ | 1 per 10 ¹⁴ |
| Service Life/Limited Warranty (years) | 5/3 | 5/3 | 5/3 | 5/3 | 5/3 | 5/3 |
| POWER REQUIREMENTS | | | | | | |
| +12 VDC ± 5% (amps max) | 1.5 | 1.7 | 1.8 | 1.8 | 1.7 | 1.7 |
| +5 VDC ± 5% (amps max) | 0.6 | 0.5 | 0.6 | 0.6 | 0.5 | 0.5 |
| Power Management (watts) | | | | | | |
| Seek | 6.4 | 5.5 | 7.4 | 7.4 | 5.5 | 5.5 |
| Read/Write | 4.5 | 4.3 | 5.5 | 5.5 | 4.3 | 4.3 |
| Idle | 4.4 | 3.7 | 5.4 | 5.4 | 3.7 | 3.7 |
| Standby | 1.0 | 0.8 | 1.0 | 1.0 | 0.8 | 0.8 |
| ENVIRONMENTAL | | | | | | |
| Operating Shock @ 11 msec (Gs) | 10 | 10 | 10 | 10 | 10 | 10 |
| Nonoperating Shock @ 2 msec (Gs) | 150 | 150 | 150 | 150 | 150 | 150 |
| Operating Temperature (°C) | 5 to 55 | 5 to 55 | 5 to 55 | 5 to 55 | 5 to 55 | 5 to 55 |
| Nonoperating Temperature (°C) | -40 to 60 | -40 to 60 | -40 to 60 | -40 to 60 | -40 to 60 | -40 to 60 |
| Average Idle Acoustics (bels) | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| PHYSICAL | | | | | | |
| Height (in/mm) | 1/25.4 | 1/25.4 | 1/25.4 | 1/25.4 | 1/25.4 | 1/25.4 |
| Width (in/mm) | 4/101.6 | 4/101.6 | 4/101.6 | 4/101.6 | 4/101.6 | 4/101.6 |
| Depth (in/mm) | 5.75/146.1 | 5.75/146.1 | 5.75/146.1 | 5.75/146.1 | 5.75/146.1 | 5.75/146.1 |
| Weight (lb/kg) | 1.4/0.62 | 1.4/0.62 | 1.4/0.62 | 1.4/0.62 | 1.4/0.62 | 1.4/0.62 |
| SOFTWARE | | | | | | |
| Bundled Software | Disk Manager | DiscWizard | DiscWizard | DiscWizard | DiscWizard | DiscWizard |

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