

# medalist

## 3.5

INCH FAMILY

*Fast ATA-2 Interface*



- *High performance, high capacity for a more powerful system*
- *Low profile form-factor favored by system users and manufacturers*
- *Efficient power management and industry-leading acoustics for environmentally sensitive systems*
- *Fast ATA-2 interface for transfer rates up to 16.6 Mbytes per second*
- *256 Kbyte multisegmented cache buffer*
- *40,000 power cycles (CSS) and 300,000 hours MTBF*

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For additional information, please call 408/438-8111.



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Fast ATA-2 Interface



	ST3780A Medalist 720	ST31220A Medalist 1080
<b>Capacity</b>		
Formatted Mbytes (512 bytes/sector)	722.4	1,083.5
<b>Interface</b>		
	Fast ATA-2	Fast ATA-2
<b>Performance</b>		
Internal Transfer Rate, ZBR (Mbits/sec)	28 to 47	28 to 47
External Transfer Rate (Mbytes/sec)	up to 16.6	up to 16.6
Multisegmented Cache Buffer (Kbytes)	256	256
Track-to-Track Seek (msec)	3.5	3.5
Average Seek (msec)	12	12
Spindle Speed (RPM)	4,500	4,500
Average Latency (msec)	6.67	6.67
<b>Drive Configuration</b>		
Discs/Read-Write Heads	2/4	3/6
Cylinders per Drive	3,876	3,876
Bytes per Sector	512	512
Recording Method	RLL (1,7)	RLL (1,7)
<b>Logical Organization</b>		
Sectors per Track (max)	63	63
Read/Write Heads (max)	16	16
Cylinders (max)	1,399	2,099
<b>Reliability and Data Integrity</b>		
MTBF (power on hours)	300,000	300,000
Service Life	5	5
Nonrecoverable Read Errors per Bits Read	1 per 10 <sup>13</sup>	1 per 10 <sup>13</sup>
Seek Errors (per seek)	1 per 10 <sup>7</sup>	1 per 10 <sup>7</sup>
Auto-Park	yes	yes
Limited Warranty (yrs)	3	3
<b>Power Requirements</b>		
+12 VDC ±5% (amps max)	1.9	1.9
+5 VDC ±5% (amps)	0.55	0.55
Power Management (watts)		
Seeking	6.6	6.6
Read/Write	4.5	4.5
Idle	2.75	2.75
Standby	1	1
<b>Environmental</b>		
Operating Shock (Gs)	2	2
Nonoperating Shock (Gs)	75	75
Operating Temperature (°C)	5 to 55	5 to 55
Nonoperating Temperature (°C)	-40 to 60	-40 to 60
Acoustics (dBA)	30	30
<b>Physical</b>		
Height (inches/mm)	1/25.4	1/25.4
Width (inches/mm)	4.02/102.1	4.02/102.1
Depth (inches/mm)	5.77/146.6	5.77/146.6
Weight (lb/kg)	1.5/0.68	1.5/0.68
Capacity calculated at 1 Mbyte = 1 million bytes		