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MHT2xxxAH Mobile Hard Disk Drives

- Available in 40 GB, 60 GB and 80 GB
- ATA 6 interface, Ultra ATA 100
- Up to 55.4 MB/s internal transfer rate
- 9.5 mm high
- 5,400 rpm
- Advanced GMR head



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THE POSSIBILITIES ARE INFINITE



The **MHT2xxxAH** series from Fujitsu heralds the industry's broadest range of 5,400 rpm 2.5" mobile hard disk drives.

Fujitsu's latest generation of hard disk drives, the MHT series is available in 40, 60 and 80 GB capacities in a low 2.5" 9.5mm profile.

The MHT series now employs new GDT (Glass Direct Texture) Media enabling a 30% increase in areal density of up to 69.3 Gb/sq.in which offers 40 GB per disk, whilst also improving media resolution and decreasing noise levels resulting in improved data integrity.

These drives offer exceptional performance with up to 55.4 MB/s transfer rate, industry-leading track to track seek times of 1.5 ms and operating power consumption as low as 2.1 W.

The MHT series utilizes Fujitsu's fourth generation of FDB (Fluid Dynamic Bearing) motor and Head Load/Unload mechanism with Inertia Latch technology. This, along with Silent HDD technologies, makes these drives ideal for intensive mobile computing applications and rugged environments.

Functional Specifications

Model	MHT2040AH	MHT2060AH	MHT2080AH
Storage capacity (formatted) *1	40 GB	60 GB	80 GB
Disks	1 - 2	2	2
Heads (read/write)	2 - 3	4	4
Areal density	up to 69.3 Gb/sq.in.		
Bytes/sectors	512		
Seek time	Track to track	1.5 ms (typ.)	
	Average	12 ms (typ.)	
	Maximum	22 ms (typ.)	
Average latency time	5.56 ms		
Rotational speed	5,400 rpm		
Data transfer rate	to/from media	up to 55.4 MB/s	
	to/from host	100 MB/s	
Recording code	MEEPRML		
Interface	ATA-6		
Head positioning method	ROTARY VCM (Embedded Servo)		
Start time *2	4 sec (typ.)		
Buffer size	8 MB		

Physical Specifications

Power requirements	Voltage	5 V ±5%	
	Ripple / Spin-up	100 mV P-P / 1.0 A (max.)	
	Seek / Read / Write / Idle	2.50 W (typ.) / 2.30 W (typ.) / 2.30 W (typ.) / 0.85 W (typ.)	
	Standby / Sleep	0.25 W (typ.) / 0.10 W (typ.)	
Dimensions (H x W x D)	9.5 mm x 70 mm x 100 mm		
Weight	≤99 g		
Ambient temperature *3	Op. / Non-op. / Gradient	5°C to 55°C / -40°C to 65°C / 20°C/h	
Relative humidity	Op. / Non-op. / Max. wet bulb	8% to 90% RH (non-condensing) / 5% to 95% RH (non-condensing) / 29°C (operating)/40°C (non-operating)	
Vibration	Op. / Non-op.	9.8 m/s ² (1.0G) (5 to 500 Hz) / 49 m/s ² (5.0G) (5 to 500 Hz)	
Shock	Op. / Non-op.	2,205 m/s ² (225G) 2 ms / 8,820 m/s ² (900G) 1 ms, 1,176 m/s ² (120G) 11 ms	
Altitude	Op. / Non-op.	-300 to 3,000 m / -300 to 12,000 m	
Acoustic noise *4		34 dBA at 30 cm (typ.) 2.9 bels (typ.)	

Reliability Specifications

Mean time between failures	More than 300,000 power on hours	
Mean time to repair	Less than 30 min	
Component life	5 years or 20,000 power on hours	
Error rates	Unrecoverable errors / Seek errors	1 per 10 ¹³ bits read / 1 per 10 ⁸ seeks
Load/Unload cycles	300,000 cycles	
Emergency Unload cycles	20,000 cycles	

Notes:

*1. Not including alternates, and typical sparing at 512 bytes per sector

*2. Start time indicates the time from power-on or start direction by command to HDD READY

*3. Op. = Operating
Non-op. = Non-operating

*4. HDD READY

Specifications are subject to change without notice. For the latest information, contact your local Fujitsu representative.

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