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STORAGE

FUJITSU

ATA-5 2.5-inch Hard Disk Drives



MHJ2181AT/MHK2120AT/MHK2090AT/MHK2060AT

Available in 6.0 to 18.1 GB and 4,200 rpm.

- Available in 18.1 GB (12.5 mm z-height) and 12.0/9.0/6.0 GB (9.5 mm z-height)
- GMR-Spin Head Valve
- Ultra-DMA 66 Support (ATA-5)
- 4,200 rpm rotational speed

Fujitsu's new generation of storage products includes four new 2.5-inch mobile hard drives with an UDMA-66 (ATA-5) interface and a spindle speed of 4,200 RPM.

These drives are available in two profiles. Standard 12.5 mm-profile drives have a formatted capacity of 18.1 GB. Slim profile drives have formatted capacities of 12.0 GB, 9.0 GB, and 6.0 GB, and weigh only 98g.

Fujitsu's new hard disk drives suit a full range of application requirements, from low-end to high-end notebook PCs, as well as applications that require small form factor, high shock resistance, low power consumption, and low acoustic noise. Each MHJ2181AT and MHK2XXXAT drive includes Giant-MR Head (GMR), Stiction-Free Trini-Slider (SFTS), Cable-Patterned Suspension (CAPS), and UDMA66 (ATA-5). These drives are designed for maximum available internal transfer rates of between 12.5 MB and 22.4 MB per second, as well as a 512 KB write/read-ahead cache buffer that enables highly efficient processing and performance.

Fujitsu's sophisticated designs and technologies allow excellent solutions even in adverse operating environments.

Functional Specifications

Model		MHJ2181AT	MHK2120AT	MHK2090AT	MHK2060AT
Storage capacity (formatted)*1		18.1 GB	12 GB	9 GB	6 GB
Disks		3	2	2	1
Heads (read/write)		6	4	3	2
Track capacity (formatted)		146,432 to 259,072 bytes/track			
Bytes/sectors		512			
Track per cylinder		6	4	3	2
Cylinders*1		14,784			
Sectors/track*4		286 to 506			
Seek time	Track to track	1.5 ms (typ.)			
	Average	13 ms (typ.)			
	Maximum	23 ms (typ.)			
Average latency time		7.14 ms			
Rotational speed		4,200 rpm			
Recording density		383,000 BPI			
Track density		24,300 TPI			
Data transfer rate	To/from media	12.5 to 22.4 MB/s			
	To/from host	66.6 MB/s			
Recording code		MEEPRML			
Interface		ATA-5			
Head positioning method		ROTARY VCM (Embedded Servo)			
Start time/Stop time		5 sec. (typ.)*2/5 sec. (typ.)*2			
Buffer size		512 KB			

Physical Specifications

Power requirements Voltage		5V ±5%	
Ripple/Spin-up		100 mV P-P/0.90 A (typ.)	
Operating/Idle		2.3 W (typ.)/0.95 W (typ.)	
Standby/Sleep		0.35 W (typ.)/0.1 W (typ.)	
Dimensions	Height	12.5 mm (0.49 in.)	9.5 mm (0.37 in.)
	Width/Depth	70 mm (2.8 in.)/100 mm (3.9 in.)	
Weight		145g (5.23oz)	98g (3.46 oz)
Ambient temperature	Operating	5°C to 55°C (41°F to 131°F)	
	Non-operating	–40°C to 65°C (–40°F to 149°F)	
	Gradient	20°C (68°F)/H	
Relative humidity	Operating	8% to 90% RH (non-condensing)	
	Non-operating	5% to 95% RH (non-condensing)	
	Max. wet bulb	29°C (Operating)/40°C (Non-operating)	
Vibration	Operating	1.0 G (5 to 500 Hz)	1.0 G (5 to 400 Hz)
	Non-operating	5.0 G (5 to 500 Hz)	5.0 G (5 to 400 Hz)
Shock	Operating	150G 2 ms	
	Non-operating	700G 1 ms, 120G 11 ms	
Altitude	Operating	–300 to 3,000 m (–1,000 to 10,000 ft)	
	Non-operating	–300 to 12,000 m (–1,000 to 40,000 ft)	
Acoustic noise		30 dBA at 1 m*3	

Reliability Specifications

Model		MHJ2181AT/MHK2XXXAT
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	Recoverable errors	———
	Unrecoverable errors	1 per 10^{13} bits read
	Seek errors	1 per 10^{6} seeks
Start/stop cycles		50,000 cycles

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

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 IDD READY.
Stop time indicates the time from stop direction by standby command to completely stop the disk.

*3: IDD READY

*4: Typical sparing

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