MHV2xxxAT

HARD DISK DRIVES



MHV2xxxAT Mobile Hard Disk Drives

- Available in 40 GB, 60 GB, 80 GB, 100GB and 120 GB
- ATA 6 interface, Ultra ATA 100
- 9.5 mm high
- 4,200 rpm
- RoHS compliant







Fujitsu's **MHV2xxxAT** series now offer models with up to 120 GB capacity at a rotational speed of 4,200 rpm.

The latest generation of drives from Fujitsu the MHV2xxxAT series is available in capacities of 40, 60, 80, 100 and 120 GB and is available in a 2.5", 9.5mm profile.

The drives boast a best in class Read / Write power consumption of 1.6 W with an idle power consumption of only 0.5 W, track to track seek times of 1.5 ms and is also RoHS compliant meaning certain hazardous materials have been removed from the manufacturing process as per a recent European Commision Directive. The drive is also exceptionally quiet with an operating acoustic noise of only 2.3 bels using Fujitsu's Silent HDD technologies. The series also utilizes Fujitsu's latest generation of FDB (Fluid Dynamic Bearing) motor and Head Load/Unload mechanism with Inertia Latch technology.

Available in a small form factor with increased capacity these drives are perfect for mobile computing applications as well as many emerging hard drive applicable markets such as consumer entertainment or transport.

Model		MHV2040AT	MHV2060AT	MHV2080AT	MHV2100AT	MHV2120AT				
Storage capacity (formatte	d) *1	40 GB	60 GB	80 GB	100 GB	120 GB				
Bytes/sectors				512						
Seek time	Track to track	1.5 ms (typ.)								
	Average	Read: 12 ms (typ.), Write: 14 ms (typ.)								
Maximum		22 ms (typ.)								
Average latency time		7.14 ms								
Rotational speed		4,200 rpm								
Data transfer rate	to/from host	100 MB/s								
Interface		ATA-6								
Head positioning method		ROTARY VCM (Embedded Servo)								
Start time *2		3.5 sec (typ.)								
Buffer size		2 MB		8	MB					
Ripple / Spin-up		100 mV P-P / 0.90 A (max.)								
Power requirements	Voltage	5 V ±5%								
Seek / Read / Write / Idle Standby / Sleep		1.9 W (typ.) / 1.6 W (typ.) / 1.6 W (typ.) / 0.5 W (typ.)								
		0.2 W (typ.) / 0.1 W (typ.)								
Dimensions (H x W x D)		9.5 mm x 70 mm x 100 mm								
Weight		≤100 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.	2,940 m/s² (300G) 2 ms / 8,820 m/s² (900G) 1 ms, 1,176 m/s² (120G) 11 ms								
Altitude	Op. / Non-op.	-300 to 3,000 m / -300 to 12,000 m								
Acoustic noise *4		24 dBA (typ.) 2.3 bels (typ.)								
	tions									
Reliability Specifica		More than 300,000 power on hours								
			wore			Less than 30 min				
			Wore							
Mean time between failure Mean time to repair Component life	S									
Mean time between failure Mean time to repair Component life			5 yea	Less than 30 min	hours					
Mean time between failure Mean time to repair Component life	S		5 yea	Less than 30 min ars or 20,000 power on	hours					

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. Stop time indicates the time from power-off
- *3 Op. = Operating Non-op. = Non-operating
 *4 HDD READY
- (typical dBA at 30cm)

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

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