

STORAGE



# Hard Drive

**MHM2xxxAT Series**  
2.5-inch Disk Drives

The Fujitsu MHM2xxxAT Series, 2.5-inch disk drives feature the performance, capacity and reliability you need for today's stringent mobile computing requirements.

No one else can offer the level of design breakthroughs featured on Fujitsu's MHM2xxxAT Series disk drives. From significant advancements in head and media technology to lower power consumption capabilities and extreme ruggedness and reliability, there is simply no match for the MHM2xxxAT disk drive.

### **Impressive Capacity and Performance in a Mobile Drive**

Today's demanding mobile users expect disk drives to be extremely compact while offering incredible performance and capacity. Fujitsu's MHM2xxxAT disk drives deliver both without sacrificing efficiency or reliability.

High areal densities of 16.1GB/in<sup>2</sup>, combined with Fujitsu's sixth-generation of GMR heads and MEEPRML read channel technologies, enable these large-capacity drives to deliver outstanding performance. With capacities of 10GB, 15GB, 20GB or 30GB, these drives are big enough to hold large multimedia presentations, fast enough to run

- 10GB per platter data capacity offered in capacity points up to 30GB
- Low profile form factors of 9.5mm and 12.5mm
- Giant Magneto-Resistive (GMR) head and Modified Enhanced Extended Partial Response/Maximum Likelihood (MEEPRML) read channel technologies
- High non-operating shock tolerance up to 700G delivers extreme ruggedness
- Fast Ultra ATA/66 interface and 4,200 RPM spindle speed
- Intelligent power management technology automatically regulates power usage as low as 0.1 Watt in sleep mode.

*Mobile*

*Desktop*

*Enterprise*

them, and small enough to fit in today's compact mobile computers, notebooks and consumer electronics.

### Intelligent Power Management Helps Maximize Battery Life

Fujitsu's MHM2xxxAT disk drives feature Fujitsu's intelligent power management technology, which helps maximize battery life for mobile computing devices by efficiently regulating the drive's power requirements to as low as 0.1 Watt in sleep mode.

### High Shock Resistance

The MHM2xxxAT drives are durable enough to withstand up to 700G non-operating shock by offering a number of features designed to resist

shock and increase reliability. The MHM2xxxAT's stiffness-reinforced base casting delivers enhanced stability for greater vibration and shock resistance. The Mobile series' repeatable run-out compensation corrects mechanical "disk shift" by automatically performing diagnostics and making adjustments each time the drive starts up. Finally, Fujitsu Computer Products of America, Inc. has implemented spacers to limit the read/write head up and down movement, greatly reducing the possibility of damage or debris from head to media contact.

### About Fujitsu Computer Products of America, Inc.

Fujitsu Computer Products of America, Inc. is a wholly owned subsidiary of Fujitsu Limited, one of the world's largest computer companies with \$49.6 billion in worldwide revenue in fiscal year 2000. Benefiting from Fujitsu Limited's \$3 billion annual investment in research and development, FCPA provides innovative solutions for the U.S. marketplace. Current product offerings include: high performance hard disk drives, tape drives, magneto-optical drives, high volume scanners, and printers.

MHM2xxxAT Series Disk Drive Specifications				
Model	MHM2100AT	MHM2150AT	MHM2200AT	MHL2300AT
Storage capacity (formatted)	10.0GB	15.1GB	20.0GB	30.0GB
Disks/heads	1/2	2/3	2/4	3/6
Track capacity (formatted)	185,856 to 287,232 bytes			
Bytes/sector	512			
Sectors / Track	363 to 627			
Cylinders (User)	19,936			
Seek time	Track to Track	1.5 ms typ.		
	Average	12 ms typ.		
	Full Track	22 ms		
Average latency	7.14 ms			
Rotational speed	4,200 RPM			
Recording density	499,700 BPI			
Track density	32,300 TPI			
Data transfer rate	To/from media	16.4 to 28.7 MB/s		
	To/from host	66.6 MB/s		
Recording code	16/17 MTR MEEPRL			
Interface	Ultra ATA/66			
Buffer size	2 MB			
Power requirements	Voltage	5 V± 5%		
	Spin-up	0.90A typ.		
	Operating	2.5W typ.	2.6W typ.	
	Idle	0.80W	0.95W	
	Standby	0.25W typ.		
	Sleep	0.10W typ.		
Dimensions	Height	9.5 mm (0.37 in.)		12.500 (0.49 in)
	Width	70 mm (2.8 in.)		
	Depth	100 mm (3.9 in.)		
Weight	98 g (3.46 oz.)			134g (4.72 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(Op.)/ 40°C(Non Op.)		
Vibration	Operating	1.0 G (5 to 400 Hz)	1.0G (5 to 500Hz)	
	Non-operating	5.0 G (5 to 400 Hz)		5.0 G (5 to 500 Hz)
Shock	Operating	175 G (2ms)		
	Non-operating	700 G (2ms)	600G (2ms)	
		120G (11ms)	120G (11ms)	
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 (Idle mode)	30 dBA			
MTBF	>300,000 power on hours			
Limited warranty	3 years. Certain restrictions apply; for full details, visit <a href="http://www.fcpa.com">www.fcpa.com</a> or call (800) 626-4686.			

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