



Hard Drive

Mobile 10
Mobile 10L Low Profile
 2.5-inch Disk Drives

The Fujitsu Mobile 10/10L, 2.5-inch disk drives feature the performance, capacity and reliability you need for today's stringent mobile computing requirements.

- 10GB, 6.4GB, 4.8GB or 3.2GB capacity
- Low 9.5mm and 12.5mm height
- Giant Magneto-Resistive (GMR) head and Partial Response/Maximum Likelihood (PRML) read channel technologies
- High non-operating shock tolerance up to 700G delivers extreme ruggedness
- Fast ATA-4 interface and 4,200 RPM spindle speed
- Intelligent power management technology automatically regulates power usage to less than 1W when idle

No one else can offer the level of design breakthroughs featured on Fujitsu's Mobile Series disk drives. From significant advancements in head and media technology to lower power consumption capabilities and unequalled ruggedness and reliability, there's simply no match for the Mobile 10/10L 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 Mobile 10/10L disk drives deliver both without sacrificing efficiency or reliability.

High areal densities of 5.12 GB/in, combined with Fujitsu's second-generation of GMR heads and PRML read channel technologies, enables these large-capacity drives to deliver outstanding performance. In fact, the sensitivity of Fujitsu's GMR heads is nearly 20 times greater than conventional MR heads, permitting much higher data density. With capacities of 3.2GB, 4.8GB, 6.4GB or 10GB, these Mobile series drives are big enough to hold large multimedia presentations, fast enough to run them, and small enough to fit in today's compact mobile computers and notebooks.

Mobile

Desktop

Enterprise

Intelligent Power Management, Maximizes Battery Life

Fujitsu's Mobile 10/10L disk drives feature Fujitsu's intelligent power management technology maximizing notebook battery life by efficiently regulating the power usage.

Prevents and Resists Shock

The Mobile 10/10L drives are durable enough to withstand up to a 700G shock by offering a number of features designed to prevent shock and increase reliability. First, there's the Mobile 10/10L's revolutionary base casting. This stiffness-reinforced base 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 any necessary adjustments each time the drive starts up. Finally, the Head Lap Limiter features spacers that limit the head's z-axis movement, greatly reducing head shock.

In addition, the Mobile 10/10L drives feature Self-Monitoring Analysis and Reporting (S.M.A.R.T.), an automatic detection system that gives users advanced warning of possible drive inconsistencies.

About Fujitsu Computer Products of America

Fujitsu Computer Products of America is a wholly owned subsidiary of Fujitsu Limited, one of the world's largest computer companies with \$37.7

billion in worldwide revenue. Benefiting from Fujitsu Limited's \$3 billion annual investment in research and development, Fujitsu Computer Products 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.

Mobile 10/10L Series Disk Drive Specifications

Model	MHG2102AT	MHH2032AT	MHH2048AT	MHH2064AT
Storage capacity (formatted)	10.0GB	3.2GB	4.8GB	6.4GB
Disks/Heads	3/6	1/2	2/3	2/4
Track capacity (formatted)	92,160 to 158,720 bytes			
Bytes/sector	512			
Tracks per cylinder	6	2	3	4
Cylinders (user)	8,647			
Seek time	Track to Track	1.5 ms typ.		
	Average	13 ms typ.		
	Maximum	23 ms typ.		
Average latency	7.14 ms			
Rotational speed	4,200 RPM			
Recording density	281,800 BPI			
Track density	18,200 TPI			
Data transfer rate	To/from media	9.2 to 15.8 MB/s		
	To/from host	33.3 MB/s		
Recording code	16/17 EPR4ML			
Interface	ATA-4			
Buffer size	512 KB			
Power requirements	Voltage	5 V± 5%		
	Spin-up	0.9 A typ.		
	Operating	2.15W typ.		
	Idle	0.95W typ.		
	Standby	0.35W typ.		
	Sleep	0.1W typ.		
Dimensions	Height	12.5 mm (0.49 in.)	9.5 mm (0.37 in.)	
	Width	70 mm (2.8 in.)		
	Depth	100 mm (3.9 in.)		
Weight	145 g (5.11 oz)	98 g (3.35 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 or less		
Relative humidity	Operating	8% to 90% RH (non-condensing)		
	Non-operating	5% to 95% RH (non-condensing)		
Max wet bulb	29°C			
Vibration	Operating	1.0 G0-peak (5 to 500 Hz)	1.0 G0-peak (5 to 400 Hz)	
	Non-operating	5.0 G0-peak (5 to 500 Hz)	5.0 G0-peak (5 to 400 Hz)	
Shock	Operating	125 G 2ms		
	Non-operating	600 G 2ms	700 G 1ms	
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 at 1m or 3.3 Bels			
MTBF	300,000 power on hours			
Limited warranty	3 years			

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