



Hard Drive

Mobile 18 XP Series
2.5-inch Disk Drives

The Fujitsu Mobile 18XP series, 2.5-inch disk drives feature the performance, capacity and reliability you need for today's stringent mobile computing requirements.

- 18.1GB, 12.0GB, 9.0GB or 6.0GB capacity
- Low 9.5mm and 12.5mm height
- Giant Magneto-Resistive (GMR) head and Modified Enhanced Extended Partial Response/Maximum Likelihood (MEEPRL) read channel technologies
- High non-operating shock tolerance up to 700G delivers extreme ruggedness
- Fast ATA-5 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 unequaled ruggedness and reliability, there's simply no match for the Mobile 18 XP 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 18 XP disk drives deliver both without sacrificing efficiency or reliability.

High areal densities of 9.3 GB/in², combined with Fujitsu's third-generation of GMR heads and MEEPRL 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 18.1GB, 12.0GB, 9.0GB or 6.0GB, 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 18 XP disk drives feature Fujitsu's intelligent power management technology greatly maximizing notebook battery life by efficiently regulating the power usage.

Prevents and Resists Shock

The Mobile 18 XP 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 18 XP'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, Fujitsu Computer Products of America has implemented spacers to limit the head's z-axis movement, greatly reducing head shock.

In addition, the Mobile 18 XP 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 \$43.3 billion in worldwide revenue in fiscal year 1998. 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 18 XP Series Disk Drive Specifications

Model	MHJ2181AT	MHK2060AT	MHK2090AT	MHK2120AT
Storage capacity (formatted)	18.1GB	6.0GB	9.0GB	12.0GB
Disks/Heads	3/6	1/2	2/3	2/4
Track capacity (formatted)	146,432 to 259,072 bytes			
Bytes/sector	512			
Tracks per cylinder	6	2	3	4
Cylinders (User)	14,784			
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	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			
Buffer size	512 KB			
Power requirements	Voltage	5 V± 5%		
	Spin-up	0.9 A typ.		
	Operating	2.3W		
	Idle	0.95W		
	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 (5.23 oz)	98 g (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 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	150 G 2ms		
	Non-operating	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			
MTBF	>300,000 power on hours			
Limited warranty	3 years			

© 1999 Fujitsu Computer Products of America. All rights reserved. The statements in this publication are not intended to create any warranty, expressed or implied. Fujitsu Computer Products reserves the right to change equipment and performance specifications stated herein without notice. Fujitsu and the Fujitsu logo are registered trademarks of Fujitsu Limited. All other trademarks mentioned herein are the property of their respective owners.

Printed in the U.S.A. Qty. 10M P/N DS24500699



FUJITSU COMPUTER PRODUCTS OF AMERICA, INC.
2904 Orchard Parkway
San Jose, CA 95134-2009
(800) 626-4686
(408) 432-6333
Web site: <http://www.fcpa.com>
Email: info@fcpa.fujitsu.com