

Whisper-quiet performance, high capacities and rugged reliability for mobile applications.

# MHT-AT Series

## 4,200 RPM, Ultra ATA/100 2.5-Inch Mobile Drives

Breakthrough technologies combine high performance, capacity and durability with low noise emissions and power consumption.

- ▶ High areal density enables capacity points of 20GB, 30GB, 40GB, 60GB, and 80GB in a low-profile, 9.5-mm form factor
- ▶ Rugged construction delivers high shock tolerance (900G, 1 ms, non-operating; 225G, 2 ms operating) for lasting performance
- ▶ Intelligent seek profile and Fluid Dynamic Bearing Motors dramatically reduce acoustic noise
- ▶ Fast Ultra ATA/100 interface and 4,200 RPM spindle speed
- ▶ Intelligent power management technology reduces power consumption to as little as 0.1 Watt in sleep mode



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# MHT-AT Series 4,200 RPM, Ultra ATA/100 2.5-Inch Mobile Drives

## Quietly satisfying the requirements of life at home and on the road.

With significant advancements in head and media technology, ruggedness and power conservation, Fujitsu MHT-AT Series Mobile Drives are ideally suited to mobile applications. What's more, noise-reducing technologies, such as intelligent seek profiles and Fluid Dynamic Bearing (FDB) Spindle Motors, benefit consumer electronics applications as well. FDB Spindle Motors and a ramp — head load/unload feature also increase shock tolerance for improved reliability. So, the MHT-AT Series addresses the needs of a wide range of applications.

## Big on the inside, small on the outside.

Mobile and consumer electronic devices demand a blend of high performance, capacity and compactness. High areal densities up to 69.3 GB/sq. in., combined with Spin Valve GMR heads, Synthetic Ferri-magnetic and GDT media, and a 4,200-RPM spindle speed enable MHT-AT Series drives to deliver outstanding performance and high capacity in a low-profile, 9.5-mm form factor. Available in 20GB, 30GB, 40GB, 60GB and 80GB capacities, they provide ample data storage for multimedia presentations, digital audio and video, and graphics.

## About Fujitsu Computer Products of America, Inc.

Fujitsu Computer Products of America, Inc. is a wholly owned subsidiary of Fujitsu Limited, a leading provider of customer-focused IT and communications solutions for the global marketplace. FCPA provides innovative solutions for the U.S. marketplace. Current product and service offerings include: high-performance hard disk drives, magneto-optical drives, scanners and scanner maintenance.

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MHT-AT 4200 RPM Series Disk Drive Specifications

Model	MHT2020AT	MHT2030AT	MHT2040AT	MHT2060AT	MHT2080AT
Storage capacity (formatted)	20.0 GB	30.0 GB	40.0 GB	60.0 GB	80.0 GB
Bytes/sector	512				
Seek time	Track to Track	1.5 ms typ.			
	Average	12 ms typ.			
	Maximum	22 ms typ.			
Average latency	7.14 ms				
Rotational speed	4,200 RPM				
Data transfer to/from host	Up to 100 MB/s				
Interface	Ultra ATA/100 (ATA-6)				
Buffer size	2 MB		2MB / 8MB		8 MB
Power requirements	Voltage	5 V± 5%			
	Spin-up	0.90 A max			
	Operating (Read/Write)	2.0 W / 2.1 W typ.			
	Idle	0.65 W typ.			
	Standby	0.25 W typ.			
	Sleep	0.10W typ.			
Dimensions	Height	9.5 mm (0.37 in.)			
	Width	70 mm (2.8 in.)			
	Depth	100 mm (3.9 in.)			
Weight	99 g (3.49 oz.) or less				
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 (Op.) / 40°C (Non Op.)			
Vibration	Operating	9.8 m/s <sup>2</sup> (1.0 G) (5 to 500 Hz)			
	Non-operating	49m/s <sup>2</sup> (5.0 G) (5 to 500 Hz)			
Shock	Operating	2,205 m/s <sup>2</sup> (225 G) 2ms			
	Non-operating	8,820 m/s <sup>2</sup> (900 G) 1ms; 1,176 m/s <sup>2</sup> (120 G) 11ms			
Altitude	Operating	-300 to 3,000 m (-1,000 to 10,000 ft.)			
	Non-operating	-300 to 12,000m (-1,000 to 40,000 ft.)			
Acoustic noise	HDD Ready	24 dBA at 30 cm (typical), 2.3 bels (typical)			
	Random Seek	28 dBA at 30 cm (typical), 2.7 bels (typical)			
Limited Warranty	3 years (from date of purchase). Visit online at <a href="http://www.fcpa.fujitsu.com/warranties/">www.fcpa.fujitsu.com/warranties/</a> or call toll free at (800) 626-4686, option 2, for full Limited Warranty details and restrictions.				

MHT-AT 4200 RPM Series Disk Drive — Extended Duty Version

Model	MHT2030AT#ED
Storage capacity (formatted)	30.0 GB
Operating time	730 hours/month
Ambient temperature	5° C to 40° C
DE surface temperature	5° C to 45° C
Operating time (R/W or seeking)	50% (Ratio of operating time to power on time)



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