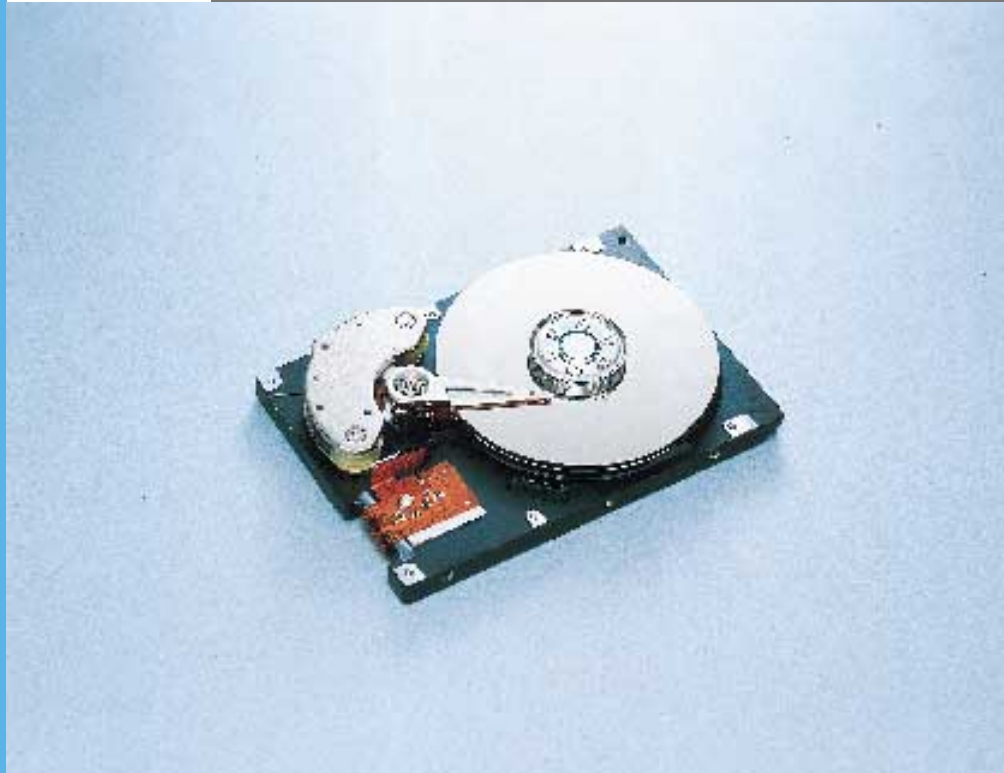


3.5-inch ATA-5 desktop Hard Disk Drives



**MPF3XXXAT/MPF3XXXAH**

Available in 10.2 GB, 15.3 GB and  
20.4 GB

- ATA-5 Interface
- Supports UDMA mode 4  
(transfer rate up to 66MB/s)
- 9.5 ms/8.5 ms average seek time
- 5,400 rpm - MPF3XXXAT
- 7,200 rpm - MPF3XXXAH

**Fujitsu introduces the latest in desktop Hard Disk Drive storage.**

Fujitsu offer a broad range of desktop Hard Disk Drives to suit today's entry level & high performance desktop systems & applications.

With spindle speeds of 5400 & 7200RPM in sweet spot capacities of 10, 15 &

20GB these drives are optimised for today's data and performance intensive multimedia and internet applications, & are capable of storing up-to 5 DVD movies or 42 music CD's.

Leading-edge technology enables industry leading internal data transfer

rates & best in class power consumption & acoustic noise levels.

**Functional Specifications**

Model	MPF3102AT	MPF3153AT	MPF3204AT	MPF3102AH	MPF3153AH	MPF3204AH
Storage capacity (formatted)*	10.2 GB	15.3 GB	20.4 GB	10.2 GB	15.3 GB	20.4 GB
Disks	1	2	2	1	2	2
Heads (read/write)	2	3	4	2	3	4
Track capacity (formatted)	188,416 to 344,046 bytes			184,320 to 304,128 bytes		
Bytes/sectors	512			512		
Cylinders	20,020			19,711+175		
Sectors/ track	368 to 672			360 to 594		
Seek time	Track to track Read 1.2 ms (typ.); Write 1.5 ms (typ.)			Track to track Read 0.8 ms (typ.); Write 1.0 ms (typ.)		
	Average Read 9.5 ms (typ.); Write 10.5 ms (typ.)			Average Read 8.5 ms (typ.); Write 9.5 ms (typ.)		
	Full track Read 18 ms (typ.); Write 19 ms (typ.)			Full track Read 17 ms (typ.); Write 18 ms (typ.)		
Average latency time	5.56 ms			4.17 ms		
Rotational speed	5,400 rpm			7,200 rpm		
Recording density	374,916 BPI			394,337 BPI		
Track density	19,8000 TPI			19,8000 TPI		
Data transfer rate	To/from media 21.5 to 37.7 MB/s			To/from media 29.2 to 48.6 MB/s		
	To/from host 66.6 MB/s (UDMA mode 4), 16.7 MB/s (PIO mode 4, DMA mode 2)			To/from host 66.6 MB/s (UDMA mode 4), 16.7 MB/s (PIO mode 4, DMA mode 2)		
Recording code	48/51 EPR4ML			48/52 EEP4ML		
Interface	ATA-5					
Head positioning method	ROTARY VCM (embedded servo)					
Start time	8 sec. (typ.)					
Stop time	20 sec. (typ.)					
Others						
Buffer size	512 KB			2 MB		

**Physical Specifications**

Model	MPF3102AT	MPF3153AT	MPF3204AT	MPF3102AH	MPF3153AH	MPF3204AH
Power requirements	Voltage 5V ±5%/12V±8%					
	Ripple 100 mVp-p/200 mVp-p					
	Spin-up (max.) +5V: 0.6 A, +12V: 1.8 A			Spin-up (max.) +5V: 0.6 A, +12V: 1.952 A		
	Read/write (typ.) 5.4 W		Read/write (typ.) 5.5 W		Read/write (typ.) 7.0 W	
	Idle (typ.) 4.1 W		Idle (typ.) 4.2 W		Idle (typ.) 6.1 W	
	Sleep (typ.) 0.9 W		Sleep (typ.) 1.0 W		Sleep (typ.) 1.3 W	
Dimensions	Height 26.1 mm (max.) (1.0 in.)					
	Width 101.6 mm (4.0 in.)					
	Depth 146.0 mm (5.7 in.)					
Weight	Less than 600 g (21.2 oz.)			Less than 620 g (21.9 oz.)		
Ambient temperature	Operating 5°C to 55°C (41°F to 131°F)					
	Non-operating -40°C to 60°C (-40°F to 140°F)					
	Gradient 20°C (68°F)/H					
Relative humidity	Operating 8% to 80% RH (non-condensing)					
	Non-operating 5% to 85% RH (non-condensing)					
	Wet bulb (max.) 29°C (non-condensing)					
Vibration	Operating 0.5 G <sub>0-p</sub> (5 to 300 Hz)					
	Non-operating 4.0 G <sub>0-p</sub> (5 to 400 Hz)					
Shock	Operating 30 G <sub>0-p</sub> , 2 ms					
	Non-operating 250 G <sub>0-p</sub> , 2 ms					
Altitude	Operating -60 to 3,000 m (-200 to 10,000 ft.)					
	Non-operating -60 to 12,000 m (-200 to 40,000 ft.)					
Acoustic noise (idle sound power) (typ.)	3.4 bels		3.5 bels		3.7 bels	

**Reliability Specifications**

Model	MPF3XXXAT	MPFXXXAH
Mean time between failures (MTBF)	More than 500,000 power on hours	
Mean time to repair (MTTR)	Less than 30 min.	
Component life	5 years or 20,000 power on hours	
Error rates	Recoverable errors 1 per 10 14 bits read	
	Unrecoverable errors 1 per 10 6 seeks	
	Seek errors 40,000 cycles	
Start/stop cycles	40,000 cycles	

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

**Notes:**  
\*: Capacity under the LBA mode

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