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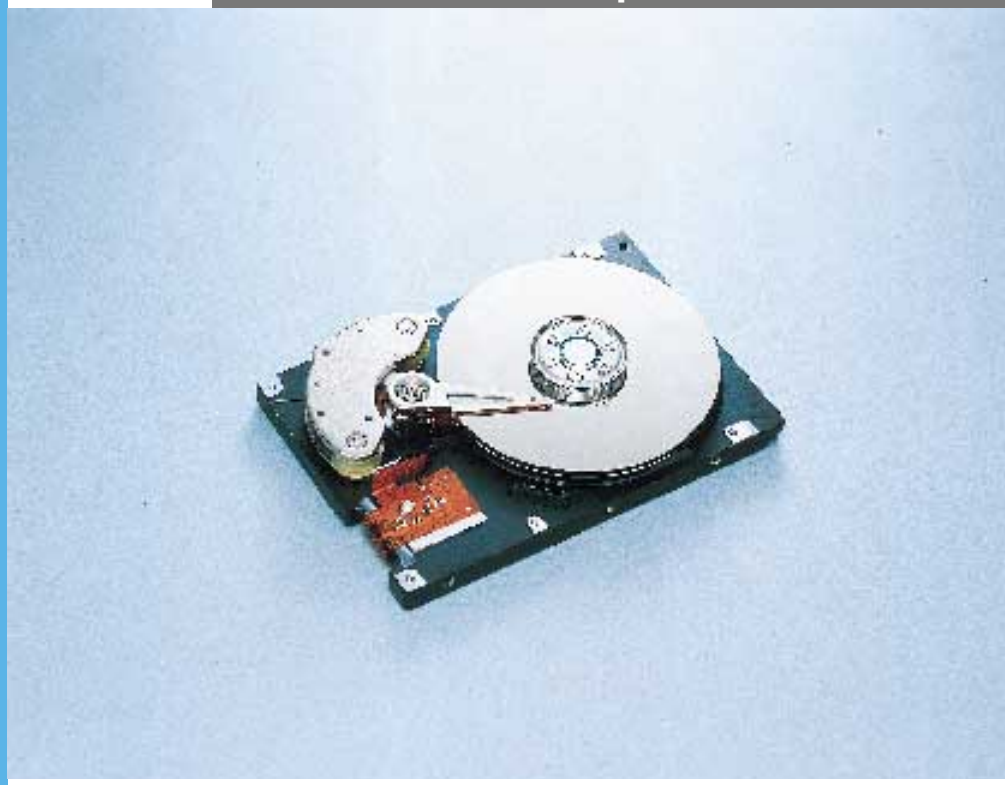
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STORAGE

FUJITSU

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					
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.)			Read 0.8 ms (typ.); Write 1.0 ms (typ.)		
	Average	Read 9.5 ms (typ.): Write 10.5 ms (typ.)			Read 8.5 ms (typ.); Write 9.5 ms (typ.)		
	Full track	Read 18 ms (typ.): Write 19 ms (typ.)			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					
Data transfer rate	To/from media	21.5 to 37.7 MB/s			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)					
Recording code		48/51 EPR4ML			48/52 EEPR4ML		
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			+5V: 0.64 A, +12V: 1.952 A		
	Read/write (typ.)	5.4 W	5.5 W		6.5 W	7.0 W	
	Idle (typ.)	4.1 W	4.2 W		5.6 W	6.1 W	
	Sleep (typ.)	0.9 W			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 Go-p (5 to 300 Hz)					
	Non-operating	4.0 Go-p (5 to 400 Hz)					
Shock	Operating	30 Go-p, 2 ms					
	Non-operating	250 Go-p, 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	—	
	Unrecoverable errors	1 per 10 14 bits read	
	Seek errors	1 per 10 6 seeks	
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

European contacts:

FUJITSU EUROPE LTD.
2 Longwalk Road, Stockley Park,
Uxbridge, Middlesex. UB11 1AB, ENGLAND.
Phone: (44-20) 8573-4444
Fax: (44-20) 8573-2643

FUJITSU DEUTSCHLAND GmbH
Frankfurter Ring 211,
80807 München, GERMANY.
Phone: (49-89) 32378-0
Fax: (49-89) 32378-100

FUJITSU NORDIC AB
Kung Hans väg 12,
S-192 68 Sollentuna, SWEDEN.
Phone: (46-(0)8) 626-4500
Fax: (46-(0)8) 626-4588

FUJITSU FRANCE S.A.
1 Place Des Etats-Unis, SILIC 310,
94588 Rungis cedex, FRANCE.
Phone: (33-1) 4180-3888
Fax: (33-1) 4180-3850

FUJITSU ITALIA S.p.A.
Via Nazario Sauro, 38
20099 Sesto San Giovanni (MI), ITALY.
Phone: (39-02) 26294-1
Fax: (39-02) 26294-201

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