

Storage capacities doubled and internal data-transfer rates boosted by 22% over previous generation.

# 3.5-Inch, 10K RPM Enterprise Hard Disk Drives

MAT3073 • MAT3147 • MAT3300

Build and deploy storage systems that offer significant capacity and cost-effective performance.

- ▶ Fujitsu's Enterprise Hard Disk Drives offer 10K RPM spindle speed and feature storage capacities of 73-, 147- and 300GB
- ▶ Maximum internal data-transfer rates of 132MB/s
- ▶ Includes 8MB data buffer for optimizing the overall drive performance
- ▶ Fujitsu's Fluid Dynamic Bearing (FDB) technology embedded on all models assures remarkably quiet operation
- ▶ Ultra320 SCSI and 2Gbps Fibre Channel interfaces



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# 3.5-Inch, 10K RPM

## Enterprise Hard Disk Drives

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The time is right to purchase one of the highest-capacity hard drives in the industry. Whether you are deploying NAS, DAS, or SANs, give your customers the storage performance they need.

With Fujitsu's innovative 4-platter hard disk drives, you can dramatically increase speed and efficiency, because fewer platters mean higher data rates.

Fujitsu's enterprise hard disk drives are also the industry's first 75Gb/square inch design to deliver 300GB of storage capacity in a 10K RPM 3.5-inch form factor. This makes them a perfect solution for today's demanding storage environments. Fujitsu's hard disk product variations and accelerated performance allow greater flexibility for system builders or VARs building rack-optimized or tower servers, disk systems, and RAID.

But these enterprise hard disk drives not only provide robust capacity — they're also powerful. Fujitsu has substantially increased the maximum internal data transfer rate on this series, reflecting a 22% improvement over the previous generation of drives. Additionally, these enterprise hard disk drives are equipped with 68Pin or 80Pin U320 SCSI interfaces and 2Gbps Fibre Channel.

With more than three decades of expertise in the storage market, Fujitsu's technical savvy, coupled with strong channel programs, can help you offer best-of-breed technology to your customers — and position your business for the future.

### About Fujitsu Computer Products of America, Inc.

Fujitsu Computer Products of America, Inc. is a 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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### 3.5-Inch, 10K RPM Enterprise Hard Disk Drive Specifications

Description	MAT3073NC/NP/FC	MAT3147NC/NP/FC	MAT3300NC/NP/FC	
<b>Functional Specifications</b>				
Storage capacity (formatted)	73.5 GB	147.0 GB	300.0 GB	
Disks	1	3	4	
Heads (read/write)	2	5	8	
Bytes/sector	512			
Seek time	Track to track	Read: 0.2 ms (typ.) / Write: 0.4 ms (typ.)		
	Average	Read: 4.5 ms (typ.) / Write: 5.0 ms (typ.)		
	Full track	Read: 10.0 ms (typ.) / Write: 11.0 ms (typ.)		
Average latency time	2.99 ms			
Rotational speed (RPM)	10,025			
Areal density	75 Gbts/sq. in. (max.)			
Data transfer rate	To/from media	132 MB/s (max.)		
	To/from host	SCSI: 320 MB/s, FC: 2 Gb/s		
Recording code	32/34 MEEPRML			
Interface	SCA-2 (NC Series), 68Pin Wide (NP Series), FC-AL (FC Series)			
Head positioning method	ROTARY VCM			
Start time	30 s (typ)			
Stop time	30 s (typ)			
Buffer size	8 MB			
<b>Physical Specifications</b>				
Power requirements	Voltage	5 V ± 5%, 12 V ± 5%		
	Spin-up	12 V ± 5% @ 2.5 A (peak) 3.0 A (peak < 100 us) 5 V ± 5% @ 0.7 A		
	Idle (typ.)	SCSI	9.5 W	
		FC	10.5 W	
Dimensions (HxWxD)	25.4 mm x 101.6 mm x 146.0 mm			
Weight	750 g			
Ambient temperature	Operating	5°C to 55°C (DE base 60°C max)		
	Non-operating	-40°C to 70°C		
	Gradient	15°C/H Max		
Relative humidity	Operating	5% to 95% (non-condensing)		
	Non-operating	5% to 95% (non-condensing)		
	Max. wet bulb	29°C (operating)		
Vibration	Operating	0.6 mm (5 to 20 Hz) / 1.0 G (20 to 300 Hz)		
	Non-operating	3.1 mm (5 to 20 Hz) / 5.0 G (20 to 300 Hz)		
Shock	Operating	65 G max. (2 ms)		
	Non-operating	225 G max. (2 ms)		
Altitude (operation)	Operating	3,048 m (max.)		
	Non-operating	12,192 m (max.)		
Acoustic Noise (idle sound power) (typ.)	3.4 bels (ready)			
<b>Reliability Specifications</b>				
Mean time between failures (MTBF)	1,200,000 hours			
Component life	5 years			
Error rates	Unrecoverable errors	1 per 10 <sup>15</sup> bits read		
	Seek errors	10 per 10 <sup>8</sup> seeks		
Limited Warranty	5 years (from date of purchase) / No Excuses End User Replacement Program available to certain purchasers. 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, for full Limited Warranty details and restrictions.			



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