

Ultra-fast drives for today's performance-driven systems and applications.

# 3.5-Inch, 15K RPM

## Enterprise Hard Disk Drives

MAU3036 • MAU3073 • MAU3147

A high-performance solution for data streaming and heavy I/O transaction based applications.

- ▶ Features storage capacities of 36-, 73- and 147GB.
- ▶ Provides maximum internal data-transfer rates of 147MB/s.
- ▶ Includes 8MB data buffer for optimizing the overall drive performance.
- ▶ Offers Fujitsu's Fluid Dynamic Bearing (FDB) technology, assuring remarkably quiet operation.
- ▶ Includes Ultra320 SCSI and 2Gbps Fibre Channel interfaces.



**FUJITSU**

THE POSSIBILITIES ARE INFINITE

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## Enterprise Hard Disk Drives

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Thirty-five years ago Fujitsu was manufacturing 14-inch drives for mainframes. Today we're offering you some of the fastest enterprise 3.5-inch hard disk drives in the industry. Because of our technology expertise and heritage, we can provide your customers with high-capacity and reliable storage options for the most demanding of applications.

Fujitsu's 3.5-inch 15K RPM enterprise hard disk drives offer a host of innovations: their 147GB 4-platter configuration means lower power consumption, better reliability, and higher data rates. These new enterprise hard disk drives dramatically increase speed and capacity. Additionally, they are equipped with 68Pin or 80Pin U320 SCSI interfaces and 2Gbps Fibre Channel.

This makes them perfect for today's most challenging storage environments. Fujitsu's hard disk product variations and accelerated performance allow greater flexibility for system designers making rack-optimized or tower servers, disk systems, RAID, or digital video systems.

But they're not only flexible — they're powerful. Fujitsu has substantially increased the maximum internal data-transfer rate on the hard disk drives, reflecting a 24% improvement over previous generation drives.

The time is now to deliver versatile, reliable, and robust hard disk drives to your customers for their most demanding storage application needs.

**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, 15K RPM Enterprise Hard Disk Drive Specifications

Description	MAU3036NC/NP/FC	MAU3073NC/NP/FC	MAU3147NC/NP/FC
<b>Functional Specifications</b>			
Storage capacity (formatted)	36.7 GB	73.5 GB	147.0 GB
Disks	1	2	4
Heads (read/write)	2	4	8
Bytes/sector	512		
Seek time	Track to track	Read: 0.2 ms (typ.) / Write: 0.4 ms (typ.)	
	Average	Read: 3.3 ms (typ) / Write: 3.8 ms (typ)	
	Full track	Read: 8.0 ms (typ) / Write: 9.0 ms (typ)	
Average latency time	2.00 ms		
Rotational speed (RPM)	15,000		
Areal density	59 Gbits/sq. in.		
Data transfer rate	To/from media	147 MB/s	
	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	11.5 W
		FC	12.5 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	250 G max. (2 ms)	
Altitude (operation)	Operating	3,048 m (max.)	
	Non-operating	12,192 m (max.)	
Acoustic Noise (idle sound power) (typ.)	3.6 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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