

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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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
Functional Specifications					
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			147 MB/s		
To/from media			SCSI: 320 MB/s, FC: 2 Gb/s		
	To/from host				
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		
Physical Specifications					
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)		
Reliability Specifications					
Mean time between failures (MTBF)			1,200,000 hours		
Component life			5 years		
Error rates	Unrecoverable errors		1 per 10 ¹⁵ bits read		
	Seek errors		10 per 10 ⁹ seeks		
Limited Warranty			5 years (from date of purchase) / No Excuses End User Replacement Program available to certain purchasers. Visit online at www.fcpa.fujitsu.com/warranties/ or call toll free at (800) 626-4686, for full Limited Warranty details and restrictions.		



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