

High performance and high capacity for your mission critical storage applications.

3.5-Inch, SAS

15K Enterprise Hard Disk Drives

MAX3036RC • MAX3073RC • MAX3147RC

State-of-the-art hard disk drives for your most demanding enterprise applications

- ▶ 3.5-inch RoHS compliant enterprise hard disk drives offer 15K RPM spindle speed and feature storage capacities up to 147GB¹
- ▶ Ideal for applications requiring high performance and high bandwidth
- ▶ Native Command Queuing (NCQ), providing faster execution of operation commands
- ▶ Uses smaller connectors and cables than U320, a benefit acknowledged by the SCSI Trade Association (STA)
- ▶ Point-to-point connection allows for improved input-output per second (IOPS) in proportion to the number of drives connected



¹ One gigabyte (GB) = one billion bytes; accessible capacity will be less and actual capacity depends on the operating environment and formatting.

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THE POSSIBILITIES ARE INFINITE

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With more than 35 years of experience in hard disk drive technology, Fujitsu can offer state-of-the-art hard disk drives for your most demanding enterprise applications. Our latest SAS offering is another example, building on our market leadership in the exploding SAS market.

The availability of this latest SAS offering solidifies Fujitsu as the SAS leader for all form factors in the enterprise market, reflecting a determination and confidence in the new technology we have championed.

As a point-to-point connection, Fujitsu SAS hard disk drives help enterprises develop new solutions and maintain flexibility. The RoHS compliant, 3.5-inch hard disk drives offer up to 147GB of storage and 15K RPM — a perfect combination for high-end, mission-critical applications residing on database servers, storage arrays, and NAS and SAN systems.

With the 3.5-inch form-factor, performance and capacity can exceed anything previously seen with traditional SCSI, both on the input-output per seconds (IOPS) and throughput parameters. The hard disk drives are also hot pluggable, so they can be inserted or removed without harming the data or the system while the entire system is still powered on. The 3Gb SAS interface of the Fujitsu hard disk drives allows customers to take advantage of the increased performance associated with serial attached SCSI.

If you have enterprise storage needs, Fujitsu can deliver.

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, palm vein recognition technology, 10Gb Ethernet switches and degaussers.

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3.5-Inch, SAS 15K RPM Series Hard Disk Drive Specifications

Description	MAX3036RC	MAX3073RC	MAX3147RC
Functional Specifications			
Storage capacity (formatted) ¹	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	SAS: 3Gbps	
Recording code	32/34 MEEPRML		
Interface	Dual Port SAS		
Head positioning method	Rotary VCM		
Start time	30 s (typ)		
Stop time	30 s (typ)		
Buffer size	16 MB		
Physical Specifications			
Power requirements	Voltage	5 V ± 5%, 12 V ± 5%	
	Spin-up	12 V ± 5% @ 2.5 A (peak)	
	Idle (typ.)	5 V ± 5% @ 0.7 A (peak)	
		11.5 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.)	< / = 3.6bels (ready)		
Reliability Specifications			
MTBF	1,200,000 hours		
Component life	5 years		
Error rates	Seek error	10 per 10 ⁹ seeks	
	Unrecoverable errors	1 per 10 ¹⁵ bits read	
Limited Warranty	5 years (from date of purchase)		

