

KNOWN IMPLEMENTATION :

Fujitsu FDE



2.5-Inch, 7,200 RPM

Mobile Hard Disk Drives
 MHZ2080CJ • MHZ2120CJ • MHZ2160CJ
 MHZ2250CJ • MHZ2320CJ

Utilizing the vast experience and innovative technology developed over 40 years, Fujitsu enriches the 2.5" SATA Hard Disk Drive (HDD) line-up by introducing the new Full Disk Encryption 7,200 RPM 3.0Gb/sec. SATA model offering the industry's highest security standard for data storage. The new MHZ2 CJ series is designed to meet the growing needs for efficient security solutions required in today's IT platforms.

The new series features an AES hardware-based full disk encryption utilizing a 256-bit key, which permits the drive alone to provide the highest data security by simply setting a password. Since the AES 256-bit key is controlled within the processor chip of the drive, unlike software-based encryption, it provides stronger data protection from unauthorized access. The drive will automatically encrypt and decrypt the data transparently to the user with no impact on the system performance.

2.5-Inch, 7,200 RPM Series Hard Disk Drive Specifications					
Model	MHZ2080CJ	MHZ2120CJ	MHZ2160CJ	MHZ2250CJ	MHZ2320CJ
Functional Specifications					
Storage Capacity (formatted) ¹	80.0GB	120.0GB	160.0GB	250.0GB	320.0GB
Bytes/Sector	512				
Seek Time	Track to track	1.5 msec. typ.			
	Average	10.5 msec. typ. (Read), 12.5 msec. typ. (Write)			
	Maximum	20.5 msec. typ.			
Average Latency	4.17 msec.				
Fictional Speed	7,200 RPM				
Data Transfer to/from Host	300 MB/sec. (SATA 3.0Gb/sec.)				
Interface	SATA 3.0Gb/sec.*				
Buffer Size ²	16 MB				
Power Requirements	Voltage	5 V ± 5%			
	Spin-up	1.1 A typ.			
	Read/Write	2.3 W typ.			
	Idle ³	0.60 W typ. (w/ Slumber mode)			
	Standby ³	0.13 W typ. (w/ Slumber mode)			
	Sleep ³	0.13 W typ. (w/ Slumber mode)			
Dimensions ³	Height	9.5 mm (0.37 in.)			
	Width	70 mm (2.8 in.)			
	Depth	100 mm (3.9 in.)			
	Weight	116 g (4.09 oz.) or less			
Ambient Temperature	Operating	5°C to 55°C (41°F to 131°F)			
	Non-operating	-40°C to 65°C (-40°F to 149°F)			
	Gradient	20°C (68°F) / H or less			
Relative Humidity	Operating	8% to 90% RH (non-condensing)			
	Non-operating	5% to 95% RH (non-condensing)			
	Max wet bulb	29°C (Op.) / 40°C (Non Op.)			
Vibration	Operating	9.8 m/s ² (1.0 G) (5 to 500 Hz)			
	Non-operating	49m/s ² (5.0 G) (5 to 500 Hz)			
Shock	Operating	3,185 m/s ² (325 G) 2ms			
	Non-operating	8,820 m/s ² (900 G) 1ms			
Altitude	Operating	-300 to 3,000 m (-1,000 to 10,000 ft.)			
	Non-operating	-300 to 12,000 m (-1,000 to 40,000 ft.)			
Acoustics Noise	HDD idle	2.5 bels (typ.)			

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

² Buffer Size: *A small portion of buffer memory is used for drive firmware control

³ Dimensions: *Excludes PCBA and connector

* 1.5Gb/sec. Serial ATA (SATA) also available upon request



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

Fujitsu Computer Products of America, Inc.
<http://us.fujitsu.com/fcpa>
 1255 East Arques Avenue, Sunnyvale, CA 94085-4701. (900) 626-4686 (408) 746-7000 info@fcpa.fujitsu.com

©2008 Fujitsu Computer Products of America, Inc. All rights reserved. Fujitsu and the Fujitsu logo are registered trademarks and The Possibilities are Infinite is a trademark of Fujitsu Ltd. All other trademarks are the property of their respective owners.

All statements herein are valid only in the U.S. for U.S. residents, are based on normal operating conditions, are provided for informational purposes only, and are not intended to create any implied warranty of merchantability or fitness for a particular purpose. Fujitsu Computer Products of America, Inc. reserves the right to modify at any time without prior notice these statements, our products, their performance specifications, availability, price, and warranty and post-warranty programs.

