

2.5-inch hard disk drive designed to withstand extreme operating conditions

2.5-Inch, Extreme Environment

Mobile Hard Disk Drive
MHW2040AC • MHW2040AC E

Fujitsu introduces its third generation hard disk drive designed to operate in extreme environments.

- ▶ Exceptionally high quality, reliability, robustness and performance
- ▶ 2.5-inch, 4,200 RPM hard disk drives feature a Parallel ATA interface and 40GB¹ of storage capacity
- ▶ Support 24x7 applications
- ▶ Operating temperatures as high as 85°C (185°F) and as low as -30°C (-22°F)
- ▶ Ideal for outdoor applications such as ATMs, point-of-sale (POS) Systems, auto-ticketing machines, and automotive GPS devices and marine navigation systems



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

One megabyte (MB) = 1,000 bytes
One gigabyte (GB) = 1,000 megabytes
Gigabit (Gb) = 1,000 megabits
RPM = Revolutions Per Minute

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THE POSSIBILITIES ARE INFINITE

2.5-Inch, Extreme Environment Mobile Hard Disk Drive

MHW2040AC • MHW2040AC E

Fujitsu enables new applications for data storage with its third generation HDD designed for extreme operating environments.

Automotive, aircraft, marine and industrial equipment manufacturers are demanding reliable data storage for GPS navigation systems, ruggedized computing and other outdoor applications. The Fujitsu extreme environment HDDs allow manufacturers to enter these new and rapidly growing markets with confidence.

Engineered to perform in outdoor environments, the MHW2040AC series retains the outstanding level of quality and reliability for which Fujitsu is renowned. These 2.5-inch, 4,200 RPM HDDs feature 40GB of storage, low power consumption and low acoustic noise. Designed to operate at temperatures as high as 85°C and as low as -30°C, Fujitsu extreme environment HDDs are an excellent choice for outdoor applications such as ATMs, point-of-sale (POS) Systems, auto-ticketing machines, and suitable for automotive GPS devices.

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.

2.5-Inch, 4,200 RPM Series Hard Disk Drive Specifications			
Model		MHW2040AC	MHW2040AC E
Storage capacity (formatted) ¹		40 GB	
Bytes/sector		512	
Seek time	Track to Track	1.5 ms typ.	
	Average	12 ms typ. (Read), 14 ms typ. (Write)	
	Maximum	22 ms typ.	
Average latency		7.14 ms	
Rotational speed		4,200 RPM	
Data transfer to/from host		100 MB/sec	
Interface		ATA-7	
Buffer size		8MB	
Power requirements	Voltage	5 V ± 5%	
	Spin-up	1.2 A max	
	Read/Write	1.8 W typ.	
	Idle ²	0.7 W typ.	
	Standby ²	0.2 W typ.	
	Sleep ²	0.1 W typ.	
Dimensions	Height	9.5 mm (0.37 in.)	
	Width	70 mm (2.8 in.)	
	Depth	100 mm (3.9 in.)	
Weight		96 g (3.36 oz.) or less	
Ambient temperature	Operating	-20°C to 80°C (-4°F to 176°F)	-30°C to 85°C (-22°F to 185°F)
	Non-operating	-40°C to 85°C (-40°F to 185°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	49 m/s ² (5.0 G) (5 to 500 Hz)	
Shock	Operating	2,940 m/s ² (300 G) 2ms	
	Non-operating	8,820 m/s ² (900 G) 1ms	
Altitude	Operating	-300 to 4,000 m (-1,000 to 13,000 ft.)	
	Non-operating	-300 to 12,000 m (-1,000 to 40,000 ft.)	
Acoustic noise	HDD Idle	1.5 bels (typ.)	
Limited Warranty		3 years (from date of purchase)	

² SATA PHY in slumber mode.

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