

For global business

NEC recommends Windows 8.

POWERMATE type MB

type
MB



Windows® 7 Professional 32-bit, SP1

3rd generation Intel® Core™ i5 processor
3rd generation Intel® Core™ i3 processor

Dual display support

Easy-access chassis

3-year limited warranty

* Display not included.

Overview

Intel® Core™ i5 Processor Option

The 3rd-generation Intel® Core™ i5 processor, which combines energy saving and high graphics performance, is available as an option. This processor's four cores execute tasks concurrently and each core comes with autonomous functions such as power management for high work and energy efficiency.



Rich Array of Interfaces for Excellent Versatility

POWERMATE type MB offers a rich interface array that includes six USB ports (two of which are USB 3.0 ports), a PCI slot, a PCI Express slot, and a serial port. It supports simultaneous DVI-D and analog RGB output, allowing the use of two LCD displays for higher productivity.

Minimized Power Consumption

POWERMATE type MB employs a highly efficient power supply (88% or higher conversion efficiency*) that suppresses power losses. The thorough power-saving design realizes power consumption of approx. ?? W.

* Efficiency at 50% of rated output

Easy-Access Chassis

POWERMATE type MB comes with an easy-access chassis whose cover can be opened and closed without tools, shortening the time required for additional memory installation, hard disk replacement, and so on.



Photo for illustrative purposes only

Get work done faster with Windows® 7 Professional

Windows® 7 Professional SP1 32-bit
Supporting professionals with smooth operability and top class features.

Fast
Boots, shuts down,
and wakes up
quickly.

Efficient
Intuitive task
switching and
file search improve
productivity.

Secure
Protect your data
with robust,
enhanced security
features.



Specifications

The following table lists the hardware specifications of POWERMATE type MB.
Note that some hardware functions might not be supported, depending on the operating system and application software used.

		Mate type MB	
		MG32M/B-F, MC32M/B-F	MG33L/B-F, MC33L/B-F
Product code		MG32M/B-F, MC32M/B-F	MG33L/B-F, MC33L/B-F
Installed OS		Genuine Windows® 7 Professional 32-bit, SP1. Select from English, Simplified Chinese ^{*1} , or Japanese ^{*2} .	
CPU		Intel® Core™ i5-3470 processor ^{*3}	Intel® Core™ i3-3220 processor ^{*3,4}
Clock speed (when Max turbo frequency)		3.20 GHz (3.60 GHz max.)	3.30 GHz (-)
Number of cores/threads		4/4	2/4
L3 cache memory		6 MB	3 MB
Memory bus		1600 MHz	
Chipset		Intel® B75 Express chipset	
Security chip		TPM (TCG v1.2)	
Memory (main memory)		DDR3-SDRAM PC3-12800 4 GB [DIMM slot × 2] ⁵ , 8 GB max.	
Graphics accelerator		Intel® HD Graphics 2500 (build into CPU)	
Video RAM		Max. 765 MB to 1550 MB	
Audio source and sound		Intel® High Definition Audio ⁶	
Communication LAN		1000BASE-T/100BASE-TX/10BASE-T, Remote Power On (Wake on LAN) functions supported	
HDD		Approx. 500 GB ⁷ , Serial ATA/600, 7200 rpm, SMART functions supported	
Optical drive		DVD super multidrive ^{8,9} / DVD-ROM drive ⁹	
Keyboard & mouse		English PS/2 104 keyboard & USB optical sensor mouse	
Interfaces	USB	USB 3.0 × 2 (on rear side), USB 2.0 × 4 (2 ports on front side, 2 ports on rear side) [When a PS/2 keyboard is selected, one port is taken by the USB mouse. When a USB keyboard is selected, two ports are taken, one by the keyboard and one by the USB mouse.]	
	Serial	RS-232C D-sub 9 pin × 1, up to 115.2 kbps	
	Parallel	-	
	Display	DVI-D 24 pin × 1 (HDCP compatible), mini-D-sub 15 pin × 1	
	PS/2	Mini DIN 6 pin × 2 [When a PS/2 keyboard is selected, one port is taken by the keyboard]	
	Communication	RJ45 LAN connector × 1	
	Sound	Microphone input: stereo mini jack × 1 ¹¹ ; headphone/line output: stereo mini jack × 1, Line input: Stereo mini jack × 1	
Bays	Internal 3.5" bay [empty]	1 slot (taken by HDD) [0]	
	5" bay [empty]	1 slot (taken by optical drive or dedicated cover) [0]	
	PCI slot [empty]	1 slot (Low Profile ¹² [1])	
	PCI Express × 1 slot [empty]	1 slot (Low Profile ¹² [1])	
Power supply		100 to 240 VAC±10%, 50/60 Hz (only sinusoidal waveform is supported as input waveform)	
Maximum power consumption		Approx. ?? W	
Maximum apparent power		Approx. ?? VA	
Dimensions (body only) ¹³		98 (W) × 385 (D) × 343 (H) mm (excluding stabilizer), 220 (W) × 385 (D) × 343 (H) mm (including stabilizer)	
Weight (body only) ¹⁴		Approx. ?? kg	
Temperature and humidity conditions		5 to 35°C, 20 to 80% (non-condensing)	
OS for which drivers are supplied		Windows® 7 Enterprise 32-bit (SP1)/Windows® 7 Professional 32-bit (SP1)	
Main accessories		Power cord with service outlet, stabilizer, warranty, etc.	

- *1: Simplified Chinese OS models are only sold in China.
- *2: Japanese OS models are not sold in Japan.
- *3: With enhanced Intel SpeedStep® technology.
- *4: Supports hyperthreading technology.
- *5: Up to 8 GB of memory can be incorporated, but not all memory area can be used by the OS in a 32-bit version. Even if memory of 4 GB or more is incorporated, only 3 GB can be used by the OS.
- *6: Sound playback requires an external speaker or a speaker-equipped display (using the line-out port).
- *7: The area that can be used by the customer is 1 partition (which is pre-formatted to NTFS). Also, about 8 GB of the HDD is used to store the backup image for reinstallation.
- *8: With buffer underrun error prevention function.
- *9: 8 cm CDs cannot be played when the computer is vertically oriented.
- *10: Laser mice may not work as intended on a glass or mirror surface, and optical mice may not work as intended on certain surfaces such as white surfaces. In this case, provide a mouse pad or other surface suited for the type of mouse that is used.
- *11: Use of a commercially available capacitor microphone or headset is recommended.
- *12: The following maximum board sizes are supported. PCI slot: 64.5 (W) mm × 167.7 (D) mm; PCI Express slot: 68.9 (W) mm × 167.7 (D) mm
- *13: Excluding protrusions other than feet when vertically oriented.
- *14: For configuration consisting of 2 GB of memory, 500 GB HDD, and DVD super multidrive (keyboard and mouse not included).

Limited warranty services	3-year regional limited warranty (parts and labor)* * Services provided by the warranty may vary by country. Limited warranty services are available only in the country of purchase.
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