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Documentation

What BIOS Self-Test beeps mean - ideaPad laptops/desktops

Description

This article is a general introduction to what BIOS Self-Test beeps mean.

Affected Brands

All ideaPad Laptops/Desktops

Solution

Beep code	Description
1 short	Normal system bootup
1 short -1 short -1 short	System initialization failure
1 short -1 short -2 short	MB error
1 short -1 short -3 short	Invalid CMOS or battery
1 short -1 short -4 short	ROM BIOS check error
1 short -2 short -1 short	System clock error
1 short -2 short -2 short	DMA Initialization failure
1 short -2 short -3 short	DMA page register error
1 short -3 short -1 short	RAM refresh error
1 short -3 short -2 short	Basic RAM error
1 short -3 short -3 short	Basic RAM error
1 short -4 short -1 short	Basic RAM address wire error
1 short -4 short -2 short	Basic RAM check error

1 short -4 short -3 short	EKSA sequence control error
1 short -4 short -4 short	ELSA NMI error
2 short -1 short -1 short	First 64KB basic RAM error
3 short -1 short -1 short	Auxiliary DMA register error
3 short -1 short -2 short	Main DMA register error
3 short -1 short -3 short	Main interrupt handling register error
3 short -1 short -4 short	Auxiliary interrupt handling register error
3 short -2 short -4 short	Keyboard controller error
3 short -3 short -4 short	Video RAM error
3 short -4 short -2 short	Display error
3 short -4 short -3 short	Invisible ROM
4 short -2 short -1 short	Clock error
4 short -2 short -2 short	Shut down error
4 short -2 short -3 short	A20 gate error
4 short -2 short -4 short	Protected mode interrupt error
4 short -3 short -1 short	RAM error
4 short -3 short -3 short	Clock 2 error
4 short -3 short -4 short	Clock error
4 short -4 short -1 short	Serial port error
4 short -4 short -2 short	Parallel port error
4 short -4 short -3 short	digit coprocessor error

What does AMI BIOS Self-Test beep mean?

Beep code	Description
1 short	RAM refresh failure, RAM on MB refresh circuitry failure, replace the memory bar.
2 short	Parity error, the first 64KB memory chip encounters parity failure. In CMOS settings, set memory ECC check to "DISABLED" and the problem is resolved. However, it is better to replace the memory.
3 short	Basic 64KB memory failure. Memory chip check fails and replace memory.
4 short	Clock error, timer on the system board does not work.
5 short	CPU failure, CPU on the system board encounters failure.
6 Short	A20 gate failure, keyboard controller contains A20 gate switch failure.
7 short	CPU exception interrupt error, CPU on MB generates an exception interrupt and cannot switch to protected mode.
8 short	Display memory error, no display on graphics or display memory error, change graphics or video memory.
9 short	ROM check failure, ROM check value is not identical with the one recorded in BIOS.
10 short	CMOS register read-write error, SHUTDOWN register in CMOS RAM failure.
11 short	CACHE error-the outer CHCCE damage, indicates that external CACHE failure.
1 long -3 short	Memory error, memory corruption, replace the memory.
1 long -8 short	Display test error, data cable of monitor is not securely plugged in or the graphics is not properly attached.

What does Award BIOS Self-Test beep mean?

Beep code	Description
1 short	Normal system bootup

2 short	Common error, set CMOS parameters and re-set the improper options
1 long -2 short	RAM or MB error, replace RAM or MB
1 long-2 short	Monitor or graphics error
1 long-3 short	Keyboard controller error, check MB
1 long-9 short	MB FLASH ROM or EPROM error, BIOS corruption, replace FLASH ROM
Continuously long beeps:	Memory bar is not plugged in or damaged. Re-plug or replace memory bar
Beeps continuously	Connect correctly and check all the plugs of power supply, monitor and graphics and make sure they are securely connected
Repeated short beeps	Power issue