

# GIGABYTE GA-Z77-DS3H

## Intel 7 Series Motherboard

GIGABYTE Z77-DS3H Motherboard combine a host of new and exciting technologies with the latest Intel Z77 Express Chipset, creating a unique range of motherboard designs that harness the outstanding performance of the new 3rd generation Intel® Core™ processors. With an exclusive GIGABYTE 3D BIOS (Dual UEFI), UD4 Classic technology and unique EZ Set Up utilities, GIGABYTE Z77-DS3H Motherboard ensure outstanding system absolute control, with additional features that ensure an unrivalled experience on your next PC build.



### 3rd Generation Intel® Core™ processors

New 3rd generation Intel® Core™ processors are based on the new 3rd generation Intel® Core™ processor architecture, manufactured using the latest 22nm process to create a visually optimized processor platform. Based on the mature LGA 1155 socket, 3rd generation Intel® Core™ processors feature up to four high-performance 64-bit processor cores and 8MB of L3 cache Smart Cache, and overall performance when you need it most.

### 3D Mode

Designed to provide an extremely streamlined and user-friendly BIOS environment, GIGABYTE's exclusive 3D mode offers a fully interactive and illustrative GUI that allows users to easily and intuitively make key adjustments to the UEFI BIOS settings for optimum performance. 3D Mode allows novice or casual users to more clearly understand the areas of the motherboard that are being affected through the BIOS settings, gaining a clearer understanding of the BIOS functionality.

### Advanced Mode

Advanced mode provides a more comprehensive UEFI BIOS environment that is designed specifically for overclockers and power users who want maximum control over their PC's hardware. GIGABYTE's signature M.I.T. tuning technology can be found alongside fully configurable parameters for GIGABYTE's all new digital 3D Power engine. In short, advanced mode combines the signature GIGABYTE BIOS expertise you've come to expect, wrapped a slick, new and optimized graphical UEFI interface.

### UEFI DualBIOS™ Technology

At the heart of this exciting 3D BIOS technology is a pair of physical BIOS ROMs containing GIGABYTE's exclusive in-house designed UEFI BIOS technology. With a superior graphical interface capable of 32-bit color imaging and fluid user-friendly mouse navigation, UEFI DualBIOS™ makes BIOS configuration a new and exciting experience for novice and experienced users alike. UEFI BIOS also brings native support for large hard drives on 64-bit operating systems.

### Designed for PCI Express Gen.3 Support

GIGABYTE 7 series motherboards take advantage of the latest connectivity and expansion bus technologies available on the Intel platform. The 3rd generation Intel® Core™ processor platform debuts the new PCI Express gen. 3.0 expansion bus, allowing users to take advantage of the next generation, high-bandwidth discrete graphics card solutions.

\* PCIe Gen.3 is dependent on CPU and expansion card compatibility.

## Specifications

### Motherboard Specifications

Processor Socket	Intel
Processor Interface	LGA1155
Form Factor	ATX
Processors Supported	2nd generation Intel® Core™ i3
	2nd generation Intel® Core™ i5
	2nd generation Intel® Core™ i7
Multi-GPU Support	CrossFireX Ready

### Chipset

Northbridge	Intel® Z77 Express
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Memory

Memory Type	DDR3
Memory Supported	DDR3 1333MHz
	DDR3 1066MHz
	DDR3 1600MHz
Number of Pins	240-Pin
Maximum Memory Supported	32GB - 64bit
Number of Slots	4
Max. Memory Supported Per Slot	8GB

Audio

Channels	7.1 Channels
Audio Chipset	Realtek ALC887

Video Chipset	Intel® HD Graphics (CPU embedded)
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LAN Type	10/100/1000 Mbps Gigabit
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I/O Ports

PS/2 Keyboard Connectors	1 x PS/2 Keyboard/Mouse Combo port
Serial Communication Ports	1 header
Parallel Ports	None
USB Ports (Total)	12
USB 3.0 Ports	2 (rear)
USB Rear Panel Ports	4
USB Onboard Headers	2 - (expandable to 4 USB ports)
	1 - (expandable to 2 USB 3.0 ports)
LAN Ports	1
Audio Out Jacks	1

IDE Headers	None
FDD Headers	None
Serial ATA 3.0Gb/s Headers	3
Serial ATA 6.0Gb/s Headers	2
ATX Power Connectors	1 x 24-pin ATX Main Power Connector
PC Power Connectors	1 - 4 Pin
VGA Ports	1
DVI Ports	1
HDMI Ports	1
DisplayPorts	None
Expansion Slots	
PCI Slots	2
PCI Express X1 Slots	2
PCI Express X16 Slots	2
RAID	
RAID Support	Yes
RAID Modes	0
	1
	10
	5
Dimension	
Length	30.5cm
Width	21.5cm