

# msi

## Z77A-G45 THUNDERBOLT

Socket 1155 Motherboard



### Intel® Z77 Chipset Based

- Thunderbolt™ Technology : The world's fastest I/O standard
- Military Class III components: Top quality & stability
- OC Genie II: Auto OC to boost performance in 1 sec
- ClickBIOS II: Easy-to-use UEFI BIOS interface
- THX TruStudio PRO: deliver the fullest audio experience
- Support USB 3.0 & SATA 6Gb/s

### Thunderbolt™ Technology

At 10 Gbps, Thunderbolt™ technology delivers great responsiveness with data and display transfers—in each direction, at the same time—using a single cable to connect devices in a daisy chain.

### Military Class III

MSI mainboards maintains the commitment to product stability and reliability by introducing Military Class III components including SFC and Solid CAP which have passed MIL-STD-810G certification, making MSI's Military Class III components synonymous with premium quality and ultimate stability.

### OC Genie II

OC Genie II provides an instant performance boost, optimizing CPU, memory, integrated graphics, and storage device performance with the function enabled.

### Specifications

#### Motherboard Specifications

##### Processor Socket

Intel

##### Processor Interface

LGA1155

##### Form Factor

ATX

##### Processors Supported

Core i7

Celeron

Pentium

Core i5

	Core i3
Multi-GPU Support	CrossFireX Ready
Chipset	
Northbridge	Intel Z77 Chipset
Memory	
Memory Type	DDR3
Memory Supported	DDR3 2400 MHz (O.C.)
	DDR3 1866 MHz
	DDR3 1600 MHz
	DDR3 1333 MHz
	DDR3 1066 MHz
	DDR3 2000 MHz (O.C.)
	DDR3 2133 MHz (O.C.)
	DDR3 2200 MHz (O.C.)
	DDR3 2600 MHz (O.C.)
	DDR3 2800 MHz (O.C.)
	DDR3 2667 MHz (O.C.)
Maximum Memory Supported	32GB
Number of Slots	4

Audio	
Channels	8 Channels
Audio Chipset	Realtek ALC892
LAN	
LAN Type	10/100/1000 Mbps Gigabit
I/O Ports	
PS/2 Keyboard Connectors	1 x PS/2 Keyboard/Mouse Combo port
Serial Communication Ports	1
USB Ports (Total)	8
USB 3.0 Ports	2
USB Rear Panel Ports	8
LAN Ports	1
Audio Out Jacks	6
Serial ATA 3.0Gb/s Headers	4
Serial ATA 6.0Gb/s Headers	2
ATX Power Connectors	1 8-pin ATX 12V Power Connector
Fan Connectors	1 x 24-pin ATX Main Power Connector
	1 x CPU
	4 x System

S/PDIF Connectors	1 - Coaxial
	1 - Optical
VGA Ports	1
DVI Ports	1 - DVI-D
HDMI Ports	1
Expansion Slots	
PCI Express X1 Slots	4
PCI Express X16 Slots	3
RAID	
RAID Support	Yes
RAID Modes	0
	1
	10
	5
Dimensions	
Length	30.5cm
Width	24.5cm