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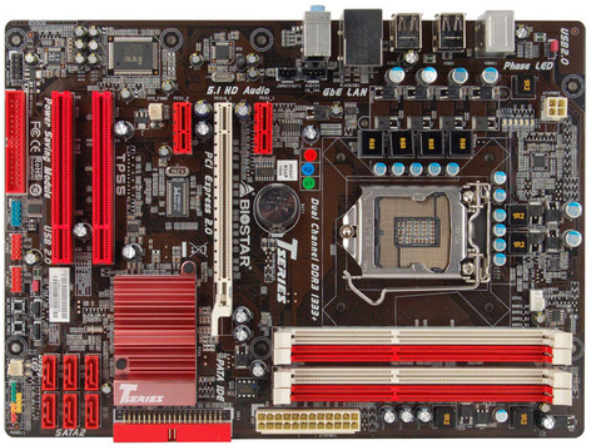
# TP55 Motherboard



## Click to view P55 Advanced Features

- Supports the Intel Core i7 and Intel Core i5 Processors in the LGA1156 Package
- Intel P55 single chip architecture
- 6 Phases Power Design
- Support 4-DIMM DDR3-2000(OC)/1800(OC)/1600/1333 up to 16G maximum capacity
- BIOSTAR G.P.U (Green Power Utility) Technology for Energy Saving
- BIOSTAR Toverclocker utility

# TP55 Specifcation

| | |
|---|---|
| CPU SUPPORT | Intel® Core™ i7 LGA 1156 Processor<br>Intel® Core™ i5 LGA 1156 Processor<br>Maximum CPU TDP (Thermal Design Power) : 95Watt |
| POWER DESIGN | 4 -phase CPU power<br>2 -phase VTT power<br>2 -phase DRAM power |
| MEMORY | Support Dual Channel DDR3 800/1066/1333/1600(OC)/1866(OC)/2000(OC) MHz<br>4 x DDR3 DIMM Memory Slot<br>Max. Supports up to 16GB Memory |
| STORAGE | 6 x SATA II Connector<br>1 x IDE Connector<br>Support SATA RAID: 0,1,5,10 |
| LAN | Realtek RTL8111DL - 10/100/1000 Controller |
| AUDIO CODEC | Realtek ALC662 6-Channel HD Audio |
| USB | 6 x USB 2.0 Port<br>2 x USB 2.0 Header |

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|---|---|
| EXPANSION SLOT | 1 x PCI-E 2.0 x16 Slot<br>2 x PCI-E x1 Slot<br>2 x PCI Slot |
| REAR I/O | 1 x PS/2 Mouse<br>1 x PS/2 Keyboard<br>6 x USB 2.0 Port<br>1 x LAN Port<br>3 x Audio Jacks |
| INTERNAL I/O | 2 x USB 2.0 Header<br>6 x SATA II Connector (3Gb/s )<br>1 x IDE Connector<br>1 x Floppy Connector<br>1 x Front Audio Header<br>1 x Front Panel Header<br>1 x CD-IN Header<br>1 x S/PDIF-Out Header<br>1 x CPU Fan Connector<br>2 x System Fan Connector<br>1 x COM Port Header |
| DIMENSION | ATX Form Factor Dimension: 29.4 cm X 21 cm ( W x L ) |
| OS SUPPORT | Supports Windows 2000 / XP / Vista / 7 |
| ACCESSORIES | 3 x SATA Cable<br>1 x SATA Power Cable<br>1 x I/O Shield<br>1 x Fully Setup Driver CD<br>1 x User Manual |
| FEATURES | Windows 7 Compatible<br>Supports Solid capacitor<br>Tweak Tech<br>Supports Clean-Tone<br>Supports O.N.E<br>Supports Rapid Switch2<br>Supports Rapid Debug<br>BIO-FLASHER<br>Supports GPU |

# TP55 OVERVIEW

## CPU-Chipset

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## Intel P55 chipset

The Intel® P55 Express Chipset is the new Intel single chipset architecture that supports the latest Intel LGA1156 ® Core™ i7 & Core i5 Processors using DMI Interconnect with amazing and impressive point-to-point links. It provides more stability and bandwidth enhancement. It also enables the nVidia® SLI technology and ATI CrossFireX™ technology to function on the same motherboard.

## Intel LGA 1156 Core™ i7/Core™ i5 Processor support

Lynnfield is the first family of Intel 45nm CPU processors that uses the Intel Nehalem micro architecture in LGA1156 package. It is supported by Intel® DMI Interconnect and integrated with the Dual-channel memory controller with 4 DIMM slots DDR3 memory. It supports the Intel Turbo boost technology and smart cache.

# Speed+

## T-Overclocker

T-overclocker presents a simple Windows-based system performance enhancement and utility management. It features several powerful yet easy to use tools such as overclocking for system performance enhancement, CPU and memory special enhancement, a smart-fan control for managing fan speed control of both CPU cooling fan, north-bridge chipset cooling fan, PC health for monitoring system status, and pre-set OC modes for easy OC.

## Tweak Tech

Biostar has a unique engineering PWM layout with low ESR and high ripple conductive solid state caps that provide sufficient, stable power supply to the CPU. The same philosophy applies to our DDR design to enhance the memory's voltage stability.

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## Dual Channel DDR3

It supports 2 or 4 DIMM Slots DDR3 memory that features data transfer rates of DDR3 2000(O.C.)/1800(O.C.)/1600/1333. The processor support 2 memory channels and setting the memory multiplier, allows selection of the channel speed. These clearly uplift the band width and boost the overall system performance.

# Durable+

## 6 Phase Power Phase Design

6-phase VRM design with high quality power components such as low RDS(on) Mosfet for lower temperature has the advantage to raise the overclocking ability.

2-Phase Power

## 2 Phase Memory Power Design

2-phase independent power design increases memory voltage stability and durability.

## G.P.U (Green Power Utility)

BIOSTAR G.P.U (Green Power Utility) is a new function that enhances energy efficiency by disabling extra phases while CPU is under light loading. It integrates a friendly GUI to monitor the resourcing and response of your CPU thus optimizing the power saving function in your system. G.P.U. constantly sets up the best power efficiency in your system, be it for heavy 3D gaming, Internet or MSN charting.

# DIY+

## MX SUITE

As an Biostar customer you can download MAGIX multimedia tools designed to enhance your music, videos and photos for free. From music and website creation to video editing and photo management. Four products that cover all of your multimedia needs. Simply do more with your media than you ever thought possible.

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## Simplitec

"Simplitec" offers premium solutions to ensure your PC is faster, more reliable and free of security gaps - automatically or with customized setups. "Simplitec" is a free bundle software to scan your computer for problems and offers a professional solution for each problem to put your PC back in top form.

## O.M.G (OverClocking Matrix Genie)

O.M.G (Overclocking Matrix Genie) is designed to automatically adjust key items to maximize system performance. Just press F10 when booting. This allows you to make simple overclocking steps as an OC expert. It lets you adjust the CPU clock, CPU voltage and other key items for overclocking needs.

## BIO-Flasher

BIO-Flasher is a convenient BIOS update tool. Just launch this tool and put the BIOS on USB pen driver before entering the OS. You can update your BIOS with only a few clicks without preparing an additional floppy disk or other complicated flash utility.

## BIO-ReLife

BIO-ReLife Technology lets you recover crashed BIOS data from a USB flash pen driver that stores new BIOS file. This practical BIOS utility can restore your system and recover from a BIOS crash situation.

## Rapid Debug

There is no need to check any H/W installation error. Onboard LED indicator answers the question for the user.

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## Rapid Switch 2

Engineered by BIOSTAR, the exquisite onboard switches allow you to easily shut down and restart your system.

*The specification and pictures are subject to change without notice and the package contents may differ by area or your motherboard version!

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