Asus P7p55d E Lx Lga 1156 Intel P55 Sata 6gb S Usb 3 0 Atx

ASUS P7P55D E LX LGA 1156 Intel P55 SATA 6Gb/s USB 3.0 ATX: A Detailed Look at a Classic Motherboard **asus p7p55d e lx lga 1156 intel p55 sata 6gb s usb 3 0 atx** is a motherboard that continues to draw attention from PC enthusiasts, especially those interested in building or maintaining systems with Intel's first-generation Core i-series processors. Despite being part of an older platform, this ASUS model offers a compelling blend of features like SATA 6Gb/s and USB 3.0 support, making it a versatile choice for users seeking reliable performance and expandability. Let’s dive deep into what makes the ASUS P7P55D E LX stand out in the realm of LGA 1156 motherboards and how it fits into today's computing needs.

Understanding the ASUS P7P55D E LX LGA 1156 Intel P55 Motherboard

When it comes to building a PC around Intel’s LGA 1156 socket, the ASUS P7P55D E LX is a well-regarded option. The motherboard uses the Intel P55 chipset, designed specifically for Intel’s first-generation Core i3, i5, and i7 processors. This platform was popular during the transition from DDR2 to DDR3 memory and introduced many features that later became industry standards.

Key Features and Specifications

The ASUS P7P55D E LX motherboard is an ATX form factor board, providing ample room for expansion cards and multiple drives. Some of its highlight features include: - **Socket LGA 1156**: Compatible with Intel Core i7/i5/i3 processors from the first generation. - **Intel P55 Chipset**: Supports dual-channel DDR3 memory and PCIe 2.0 x16 slots. - **SATA 6Gb/s Ports**: Offers faster data transfer rates compared to the older SATA 3Gb/s, improving storage device performance. - **USB 3.0 Support**: Allows for high-speed data transfer with compatible peripherals. - **Memory Support**: Supports up to 16GB of DDR3 RAM at speeds up to 2200 MHz (OC). - **Expansion Slots**: Includes PCIe x16 and PCIe x1 slots for graphics cards, sound cards, and other expansions. - **Onboard Audio and LAN**: Integrated Realtek audio and Gigabit Ethernet for connectivity. This well-rounded specification sheet makes the ASUS P7P55D E LX a solid motherboard for users looking to build a capable desktop with moderate overclocking potential.

Performance and Compatibility Insights

One of the reasons the ASUS P7P55D E LX LGA 1156 Intel P55 SATA 6Gb/s USB 3.0 ATX motherboard remains relevant is due to its balanced performance profile. While it doesn't compete with modern chipsets in sheer speed or feature set, its combination of SATA 6Gb/s and USB 3.0 support gives it an edge over other motherboards from the same era.

Processor and Memory Compatibility

The motherboard supports Intel’s first-gen Core series processors, including the popular Core i5-750 and Core i7-860 CPUs. These CPUs offer quad-core performance with Hyper-Threading (in i7 models), suitable for multitasking and gaming on a budget. For memory, the ASUS P7P55D E LX supports DDR3 RAM modules with speeds officially up to 2200 MHz when overclocked. The dual-channel memory architecture ensures improved bandwidth for demanding applications. This is particularly beneficial for users running creative software or multitasking heavily.

Storage and Expansion

The inclusion of SATA 6Gb/s (also called SATA III) ports was a significant step forward when the motherboard launched. It allows users to connect newer SSDs and hard drives capable of faster read/write speeds, reducing bottlenecks during data-intensive tasks. USB 3.0 ports are another highlight, offering speeds up to 5 Gbps—ten times faster than USB 2.0. This is crucial for transferring large files, such as videos or backups, to external drives or devices. Expansion-wise, the ATX form factor provides multiple PCIe slots, allowing users to install discrete graphics cards or other PCIe devices. The motherboard supports CrossFireX multi-GPU setups, but only with two compatible ATI/AMD GPUs, which can be handy for gamers seeking a performance boost.

Building and Upgrading with the ASUS P7P55D E LX

If you’re considering building a PC or upgrading an existing one with the ASUS P7P55D E LX LGA 1156 Intel P55 SATA 6Gb/s USB 3.0 ATX motherboard, there are some practical tips and considerations to keep in mind.

Choosing the Right Components

While the motherboard supports LGA 1156 processors, these CPUs are now quite dated compared to modern options. However, for budget-conscious builds, pairing an Intel Core i5-750 or i7-860 with sufficient RAM can still yield decent performance for everyday computing and older games. When selecting RAM, aim for DDR3 modules with speeds around 1600 MHz or higher, and ensure your BIOS supports the memory timings for stability. For storage, leveraging the SATA 6Gb/s ports by installing a compatible SSD can significantly improve boot times and application loading speeds. Additionally, USB 3.0 support means you can connect modern external drives without sacrificing transfer speeds.

BIOS and Firmware Updates

One thing users often overlook is the importance of keeping the motherboard’s BIOS updated. ASUS periodically released firmware updates for the P7P55D E LX to improve stability, expand CPU compatibility, and enhance memory support. Checking ASUS’s official site for the latest BIOS version before building or upgrading can save time and prevent hardware compatibility issues.

Cooling and Power Delivery

The ASUS P7P55D E LX features a solid VRM design capable of supporting moderate overclocking of compatible CPUs. If you plan to overclock, investing in a quality CPU cooler is essential to maintain safe operating temperatures. The ATX board also provides adequate fan headers for case and

processor cooling, ensuring your system can maintain thermal balance during intensive workloads.

Why Choose ASUS P7P55D E LX LGA 1156 Intel P55 SATA 6Gb/s USB 3.0 ATX Today?

In the current landscape dominated by newer CPU sockets and chipsets, the ASUS P7P55D E LX may seem like a relic. However, it holds certain advantages for specific scenarios.

Cost-Effective Builds and Retro Computing

For users interested in retro computing, gaming on older titles, or assembling cost-effective machines for general use, this motherboard remains a viable option. Its support for SATA 6Gb/s and USB 3.0 ensures compatibility with many modern peripherals and drives, making it easier to integrate older hardware with newer accessories.

Learning and Experimentation Platform

The ASUS P7P55D E LX is also excellent for enthusiasts who want a hands-on experience with overclocking and hardware tuning without investing heavily in the latest gear. Its accessible BIOS interface and stable hardware environment make it suitable for learning the basics of PC building and system optimization.

Durability and ASUS Reliability

ASUS has built a reputation for quality motherboards, and the P7P55D E LX is no exception. Users frequently praise its durability and stable performance, which contributes to its longevity in the secondhand and enthusiast markets.

Final Thoughts on the ASUS P7P55D E LX LGA 1156 Intel P55 SATA 6Gb/s USB 3.0 ATX

Whether you're revisiting an older system or piecing together a budget-friendly build, the ASUS P7P55D E LX offers a balanced feature set that caters to various needs. Its support for SATA 6Gb/s and USB 3.0 ensures it can handle relatively modern storage and connectivity demands, while its compatibility with Intel's LGA 1156 processors provides a solid foundation for desktop computing. While it may not match the raw power or features of contemporary motherboards, its combination of reliability, expandability, and affordability makes the ASUS P7P55D E LX a noteworthy choice for enthusiasts and practical users alike.

In-Depth Review of the ASUS P7P55D E LX LGA 1156 Intel P55 SATA 6Gb/s USB 3.0 ATX Motherboard **asus p7p55d e lx lga 1156 intel p55 sata 6gb s usb 3 0 atx** is a motherboard that emerged during the transition period from older Intel platforms to more modern computing technologies. Designed primarily for Intel's LGA 1156 socket processors, this model combines the Intel P55 chipset with essential features like SATA 6Gb/s support and USB 3.0 ports, making it an interesting option for mainstream users seeking a balance between performance and connectivity. This review delves into the technical specifications, design elements, and real-world performance of the ASUS P7P55D E LX, analyzing its relevance and competitiveness in the motherboard market,

especially for users invested in the Intel P55 platform.

Technical Overview and Specifications

At the core of the ASUS P7P55D E LX lies the Intel P55 chipset, which was Intel's mainstream chipset for the first generation of Core i5 and i7 processors using the LGA 1156 socket. This chipset supports Intel’s Nehalem and Lynnfield processors, which were groundbreaking for their time due to improved power efficiency and performance enhancements. The motherboard conforms to the ATX form factor, measuring approximately 12 x 9.6 inches, suitable for a wide range of mid-tower and full-tower cases, offering users flexibility in terms of chassis selection. One of the critical improvements ASUS incorporated into this model is the inclusion of SATA 6Gb/s ports—a feature that was becoming a standard for faster data transfer rates with compatible SSDs and hard drives. In addition to the SATA 6Gb/s ports, the P7P55D E LX boasts USB 3.0 connectivity. This addition is particularly noteworthy as USB 3.0 was relatively new at the time and offers transfer speeds up to ten times faster than USB 2.0, providing a significant upgrade for users with external drives and peripherals demanding higher bandwidth.

CPU and Memory Support

The ASUS P7P55D E LX supports Intel’s LGA 1156 socket processors, including:

1. Intel Core i7 (Lynnfield)
2. Intel Core i5 (Nehalem and Lynnfield)
3. Intel Core i3 (Clarkdale)

This compatibility ensures a broad spectrum of CPU options for users, from entry-level to high-end mainstream processors. The motherboard supports dual-channel DDR3 memory with four DIMM slots, allowing up to 16GB of RAM. Memory speeds of up to 2200 MHz (OC) are supported, providing ample headroom for gaming, multimedia, and productivity tasks.

Expansion and Connectivity

Expansion options on the ASUS P7P55D E LX include:

1. Two PCI Express 2.0 x16 slots (operating at x16 or x8+x8 in dual GPU mode)
2. Three PCI Express x1 slots
3. Two legacy PCI slots

These expansion slots provide flexibility for graphics cards, sound cards, network cards, or other add-ons. While not explicitly designed as a high-end gaming motherboard, it supports CrossFireX technology for dual AMD graphics card configurations. In terms of connectivity, the motherboard includes:

1. Six SATA ports (two supporting SATA 6Gb/s and four SATA 3Gb/s)
2. Two USB 3.0 ports on the rear I/O panel
3. Eight USB 2.0 ports (four on the rear panel, four via internal headers)
4. Gigabit Ethernet
5. Integrated 8-channel HD audio

This combination of ports and interfaces ensures the ASUS P7P55D E LX can handle a variety of peripherals and storage devices, making it suitable for everyday computing and moderate multimedia

workloads.

Performance and Features in Real-World Usage

The ASUS P7P55D E LX’s adoption of SATA 6Gb/s and USB 3.0 was a significant step forward for users upgrading from older motherboards limited to SATA 3Gb/s and USB 2.0. This allowed faster data transfer rates to modern SSDs and external storage, reducing bottlenecks and improving overall system responsiveness. In benchmarks and practical tests, the motherboard showcased solid stability and compatibility with Intel’s first-generation Core processors, delivering consistent performance across gaming, office productivity, and multimedia editing tasks. The dual PCIe x16 slots, while limited to CrossFireX support, were adequate for users looking to run dual AMD GPUs, although NVIDIA SLI was unsupported, which could be a limitation for some enthusiasts. The motherboard’s UEFI BIOS interface, while not as advanced as modern counterparts, provided an intuitive platform for overclocking and tweaking system settings. ASUS’s proprietary AI Suite software also added value by offering hardware monitoring, fan control, and overclocking utilities directly within Windows, simplifying system management for less experienced users.

Build Quality and Design Considerations

ASUS has a reputation for solid build quality, and the P7P55D E LX is no exception. The PCB layout is clean and well-organized, which aids airflow and component accessibility. The inclusion of high-quality capacitors and durable components contributes to system reliability and longevity. One downside noted by users and reviewers is the somewhat limited VRM (Voltage Regulator Module) cooling compared to higher-end motherboards, which might restrict extreme overclocking potential. However, for typical daily use and moderate overclocking scenarios, the power delivery system is sufficient. The motherboard’s aesthetic is relatively understated, with a classic black PCB and blue and white slot accents. While not flashy, this design fits well in professional or minimalist builds.

Comparisons and Market Positioning

When compared to other Intel P55 motherboards of its era, the ASUS P7P55D E LX stands out for incorporating USB 3.0 and SATA 6Gb/s support early on, which were not always standard in comparable motherboards. For example, some competing models from Gigabyte or MSI in the same price bracket lacked one or both of these features at launch. However, in terms of advanced features like multi-GPU support and overclocking, higher-end models such as the ASUS P7P55D Deluxe or Rampage series offered more robust power phases, better cooling, and additional connectivity options. This positioning places the P7P55D E LX as a solid mid-range motherboard targeting mainstream users who want reliable performance without the premium cost.

Pros and Cons Summary

1. **Pros:**
    1. Support for Intel LGA 1156 processors with solid compatibility
    2. Inclusion of SATA 6Gb/s and USB 3.0 ports for modern connectivity
    3. Dual PCIe x16 slots with CrossFireX support
    4. Support for up to 16GB DDR3 RAM at high speeds
    5. Good build quality and stable BIOS
2. **Cons:**

1. No NVIDIA SLI support for multi-GPU setups
2. Limited VRM cooling for extreme overclocking
3. UEFI BIOS less advanced compared to newer motherboards
4. Somewhat basic onboard audio compared to premium boards

Legacy and Contemporary Relevance

Despite being a product of an earlier generation, the ASUS P7P55D E LX LGA 1156 Intel P55 SATA 6Gb/s USB 3.0 ATX motherboard remains relevant in niche applications today. For enthusiasts managing legacy hardware or building budget systems based on LGA 1156 processors, this motherboard offers a compelling feature set without significant compromises. Its support for SATA 6Gb/s and USB 3.0 ensures compatibility with relatively modern storage and peripherals, while its solid build and mainstream positioning make it a dependable choice for users not requiring cutting-edge performance or features. While newer platforms now dominate the market, the ASUS P7P55D E LX serves as a testament to the evolutionary steps in motherboard technology—bridging the gap between early Intel Nehalem architecture and more contemporary computing standards. Users interested in refurbishing older systems or exploring cost-effective builds may find this motherboard an excellent foundation. The ASUS P7P55D E LX illustrates how motherboard manufacturers integrated emerging technologies like SATA 6Gb/s and USB 3.0 into mainstream offerings, setting a precedent for subsequent generations of PC hardware. Its blend of features, performance, and build quality contribute to its enduring recognition among hardware enthusiasts and professionals alike.

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Affordability expands opportunity. When financial barriers are reduced, exploration increases. Readers are more willing to engage with unfamiliar subjects, discover new perspectives, and broaden their intellectual range without hesitation.

For students, this access supports consistent learning habits. Materials remain available beyond classroom hours, allowing concepts to be reinforced at a comfortable pace. Notes and highlights stay organized, helping structure revision and review.

Professionals use downloadable books differently. They approach them as tools rather than assignments. Sections are consulted as needed, insights applied directly, and references revisited when challenges arise. Learning integrates naturally into work routines.

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What develops is not just familiarity with content, but confidence in learning itself. The reader knows that understanding can grow gradually, shaped by patience and repeated engagement.

And in that steady rhythm—open, pause, return—knowledge finds its place naturally.

Questions & Answers About asus p7p55d e lx lga 1156 intel p55 sata 6gb s usb 3 0 atx

No	Question	Answer
1	What are the key features of the ASUS P7P55D-E LX motherboard?	The ASUS P7P55D-E LX motherboard features an LGA 1156 socket supporting Intel Core i7/i5/i3 processors, Intel P55 chipset, SATA 6Gb/s ports, USB 3.0 support, and an ATX form factor.
2	Does the ASUS P7P55D-E LX support USB 3.0?	Yes, the ASUS P7P55D-E LX motherboard includes USB 3.0 ports for faster data transfer speeds compared to USB 2.0.
3	What type of SATA ports does the ASUS P7P55D-E LX have?	This motherboard supports SATA 6Gb/s ports, providing high-speed connectivity for compatible SSDs and hard drives.
4	Which processors are compatible with the ASUS P7P55D-E LX motherboard?	The ASUS P7P55D-E LX supports Intel LGA 1156 socket processors, including Intel Core i7, Core i5, and Core i3 from the first generation Intel Core series.
5	Is the ASUS P7P55D-E LX suitable for gaming builds?	Yes, the ASUS P7P55D-E LX can be used for mid-range gaming builds, especially with compatible Intel processors and dedicated graphics cards.
6	What form factor is the ASUS P7P55D-E LX motherboard?	The ASUS P7P55D-E LX motherboard comes in a standard ATX form factor, suitable for most mid-tower and full-tower PC cases.
7	Does the ASUS P7P55D-E LX support multi-GPU configurations?	The ASUS P7P55D-E LX motherboard supports single graphics card setups; it does not support NVIDIA SLI or AMD CrossFire multi-GPU configurations.
8	Can I upgrade RAM on the ASUS P7P55D-E LX?	Yes, the motherboard supports up to 16GB of DDR3 RAM across four DIMM slots, allowing for memory upgrades.
9	What is the BIOS update process for the ASUS P7P55D-E LX?	BIOS updates can be performed via ASUS EZ Flash utility accessible in the BIOS setup, allowing users to update BIOS with a USB drive without the need for an operating system.
10	Are there any known issues with the ASUS P7P55D-E LX motherboard?	Some users have reported occasional USB 3.0 compatibility issues with certain devices and limited support for newer hardware due to the older chipset, but overall it remains a stable motherboard for its generation.

Asus P7P55D-E LX, LGA 1156 motherboard, Intel P55 chipset, SATA 6Gb/s, USB 3.0 ports, ATX motherboard, Intel Core i5 compatible, DDR3 memory support, PCI Express x16 slot, desktop motherboard

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