Turnkey variant of the possibly fastest Mini-PC in the world

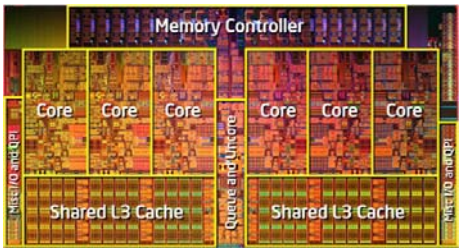
Shuttle XPC J3 5800P

Short of space? Want to stay mobile? But still need hardware that meets the highest requirements? The J3 5800P promises ultra-high performance that will simply take your breath away. It's the only model in its class to support the fastest Intel Core i7 processors and up to 16 GB DDR3 RAM. A wide range of modern dual-slot graphics cards are also available. And with our 24-month Pick-up-and-Return-Service, you're guaranteed expert assistance at all times. Take this powerhouse home with you now!

Feature Highlights

J3 chassis	• Black aluminium case (J3) • Drive bays: 1x 5.25“, 2x 3.5“ (internal)
Chipset	• Intel X58 Express + ICH10R
CPU	• Intel® Core™ i7 Quad/Six-Core Processor • Sockel 1366 • Supports 4.8/6.4 GT/s QPI • Shuttle I.C.E. Heatpipe Cooling System
Graphics	• PEG Graphics Card from ATI or NVIDIA e.g. ATI Radeon HD 5870, 1024MB
Memory	• Up to 16 GB DDR3-1066/1333 • Supports Triple Channel + 1
Drives	• 1 or 2 Serial ATA hard disk drive Total capacity up to 4 TB • Integrated 4-in-1 Card reader • DVD writer or Blu-ray Combo/Writer
Other connectors	• 7.1-ch HD-audio • Dual GigaBit LAN (supports Teaming) • USB 2.0 (2x front, 8x rear) • eSATA (shared with 1 front USB)
Power supply	• 500 Watt mini power supply 80 PLUS Bronze compliant
Application	• Performance

Optional with Intel Core i7-980X Six-Core



Note: optical drive sold separately. Images for illustration purposes only.

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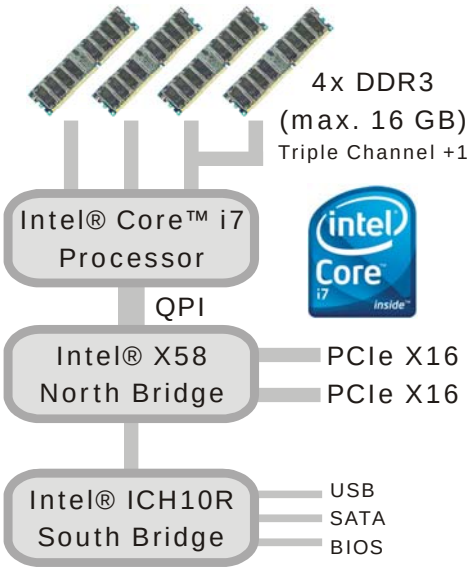
Shuttle XPC Barebone J3 5800P – Special Product Features

The new J chassis series: a clean and modern look

Shuttle has always placed great emphasis on the interior and exterior aesthetics of the XPC, with the belief that a good blend of style and form factor allows the Shuttle to be attractive, versatile, and work well in almost any environment - whether the living room, bedroom, or office. With the new J Series, Shuttle retains its trademark appearance and adds a clean, modern look to the front of the XPC. The new J3 Series will also be the first to bear the new XPC logo, featuring a striking "X" mark to signify the evolution of the XPC product line.



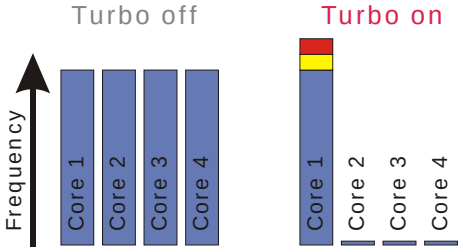
Based on Intel Nahalem architecture

The Shuttle XPC J3 5800P is based on the core microarchitecture, codenamed Nehalem, which brings some major changes not only to the the processor architecture but also the system architecture. These are most significant changes:

- The memory controller has moved from the chipset to the processor and features a triple channel DDR3 interface.
- The Intel® QuickPath Interconnect (QPI) replaces the legacy front side bus between processor and chipset.

Intel Core i7 processors with Socket 1366

J3 5800P is equipped with the Intel® Core™ i7 processors (Socket 1366) which comes with a native quad-core or six-core design, where all CPU cores sit on the same piece of silicon which share a massive level 3 cache. In addition, each core supports Hyper-threading which enables this processors process eight or twelve threads simultaneously, making it even more massively parallel and powerful than the current Core 2 Quad CPUs.



Built-in overclocking "Turbo" mode

Originally introduced on mobile Penryn, Turbo mode simply increases the operating frequency of the processor if conditions are cool enough for the CPU to run at the higher frequency. Each Nehalem can run its four cores at up to 133MHz higher than the stock frequency (e.g. 3.33GHz in the case of the 3.2GHz 965 model), or if only one core is active then it can run at up to 266MHz higher than stock (3.46GHz up from 3.2GHz). Benchmarks show an increase of the overall performance by 2% to 7% if Turbo mode is enabled in the BIOS setup.

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Dynamic Overclocking Technology (D.O.C.) *)

This is the overclocking function in the BIOS Setup, which is designed to detect the load balance of CPU while running programs, and to adjust the best CPU frequency automatically. When the mainboard detects CPU is running programs, it will speed up CPU automatically to make the program run smoothly and faster. When the CPU is temporarily suspending or staying in the low load balance, it will restore the default settings instead.

Integrated Cooling Engine (I.C.E.)

Shuttle's XPCs offer the power of a desktop PC in a form factor one-third the size. In order to ensure proper airflow inside a smaller unit, more advanced cooling technologies have been developed and implemented in the Shuttle XPC. Shuttle's industry-leading Integrated Cooling Engine (I.C.E.) heatpipe technology delivers efficient cooling and is exceptionally quiet.

PCI-Express V2.0 for high-performance graphics cards

The Shuttle XPC J3 5800P is equipped with one PCI-Express x16 Version 2.0 slot delivering a bandwidth of up to 16GB/s, twice the speed of PCI-E 1.0, thus providing plenty of potential for the newest graphics cards. It is downward compatible, allowing use for most of the present graphics cards as well.

Supports large dualslot graphics cards

The Shuttle XPC J3 5800P can be ordered with a large dual-slot graphics card like ATI Radeon HD 5870 mit 1024MB which occupy two slots. Please note, that in this case you cannot use the second slot for another expansion card.

Supports up to 16GB of DDR3 memory

This Shuttle XPC supports up to 16GB DDR3 memory which is ideal for workstations powered by 64-bit operating systems, enabling users to take full advantage of high-performance configurations.

500W power supply with 80 PLUS BRONZE logo

The Shuttle XPC J3 5800P is equipped with a rock stable 500W power supply which has been tested with the latest graphics cards and powerful Core i7 processors. Its 80 Plus Bronze logo indicates that it provides more than 82/85/82% energy efficiency at 20/50/100% of rated load which reduces energy consumption and increases the computers reliability.

Shuttle Quality with All-Solid Capacitor

By using all-solid capacitors Shuttle mainboards provide industry leading stability, reliability and longevity for PC gaming and entertainment systems. The average lifespan for a solid capacitor is more than six times greater than the more common and less expensive electrolytic capacitors.

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External Serial ATA port on front and back panel

In addition to the eSATA port at the back panel, the J3 5800P also comes with one eSATA at the front panel for plugging in high-speed external hard-drives. The eSATA interface is up to three times faster than the USB 2.0 standard.

eSATA with External Power

The back panel provides one external Serial ATA port and a power port. The included cables make it a snap to connect an external hard drive to your XPC. The Serial ATA interface is up to six times faster than USB 2.0/Firewire.

Dual Gigabit LAN with Teaming Support

This XPC features even two high-speed Gigabit LAN ports. The teaming function allows you to group both available network adapters together to function as a single adapter - a method of creating a virtual LAN. The benefit of this approach is that it enables load balancing and failover.

*) Overclocking Warning: Please note there is a certain risk involved with overclocking, including adjusting the setting in the BIOS or using third-party overclocking tools. Overclocking may affect your system stability or even cause damage of the components and devices of your system. It is done at your own risk and expense. Shuttle cannot be held responsible for possible damage caused by overclocking.

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Shuttle XPC H7 5800P Specifications

Application	Recommended range of application: Performance
Basis	System based on: the Shuttle XPC Barebone SX58J3
Operating System	Windows 7 Home Premium 32 Bit, Windows 7 Professional 32 Bit/ 64 Bit Windows 7 Professional & Windows XP Professional Downgrade 9 languages available: German, English, French, Dutch, Italian, Spanish, Swedish, Finnish, Danish
Chassis	J3-type, color: black Case cover made of aluminum, body made of steel Storage bays: 1 x 5.25" external, 2 x 3.5" internal Front door for I/O and card reader Kensington Security Slot at the back panel (also called a K-Slot or Kensington lock) as a part of an anti-theft system Dimensions: 33 x 21,.5 x 19 cm (LWH without foot rubber) = 13.5 litres
Processor	Socket 1366 with Intel® Core™ i7 Quad-Core processor Supports 900 series Quadcore processors and Core i7-980X Six-Core Integrated 8MB L3 cache The memory is directly connected to the processor Supports DDR3-1066/1333 (3+1 channel) All cores, the memory controller and all cache are on a single die The previous Front Side Bus (FSB) by the new QPI (QuickPath Interconnect) which features up to 6.4GT/s (3.2GHz) and a maximum transfer rate of 25.6GB/s.
Heatpipe cooling	Shuttle Integrated Cooling Engine (I.C.E.) Heatpipe Technology
Chipset & components	Chipset: Intel X58 Express (codenamed Tylersburg) + ICH10R (I/O Conroller Hub) Solid Capacitors for excellent heat resistance for enhanced system durability
Memory	Up to 16 GB DDR3-1066/1333 modules in Dual or Triple Channel mode
Graphics card	PCI Express x16 graphics card from ATI or NVIDIA Outputs: Sub-D (analog)*, DVI-I (digital/analog) and TV (S-Video/Composite) *) Sub-D connector may be provided by adapter optionally
Hard disk	Up to two Serial ATA hard disks with up to 2TB capacity each, total capacity max. 4 TB
Optical drive	DVD Writer or optional Blu-ray Combo/Writer
Card reader	With integrated 4-in-1 card reader (USB 2.0)

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8-ch Audio	7.1 channel High Definition Audio with Realtek ALC888 codec Analog: line-out (8-ch), line-in, microphone, Audio AUX-in (onboard)
Dual LAN	2x RJ45 connectors supports Teaming-Mode **) Marvell 8057 Ethernet network controller IEEE 802.3u 1000Base-T compliant Supports 10 / 100 / 1.000 MBit/s operation Supports Wake-on-LAN
Front panel	Microphone, Headphone (Line-out) USB 2.0 eSATA / USB 2.0 combo port 4-in-1 Card Reader Power button Power indicator (blue LED) HDD indicator (orange LED)
Back panel	8x USB 2.0 2x GigaBit LAN (RJ45) 1x External Serial ATA Hotplug (eSATA) Power connector for eSATA hard disks (incl. cable) 8-ch Audio line-out (2x front, 2x rear, bass/center, surround/back) Audio Line-in Clear CMOS button
Optional Accessories	A0041: Serial and parallel port as slot bracket adapter ***)
Power supply	500 Watt mini PSU, AC input voltage: 100~240V 80PLUS Bronze certified (>82/85/82% energy efficiency at 20/50/100% load) Active PFC circuit (Power Factor Correction) ATX power connectors: 20 pin + 8 pin (12V)
Further configuration options	It is possible to modify certain components of this configuration. Please refer to the "Shuttle Systems Configurator".
Warraty	Warranty: 24 Months Pick-Up-And-Return Service

***) Overclocking Warning**
Please note there is a certain risk involved with overclocking, including adjusting the setting in the BIOS or using third-party overclocking tools. Overclocking may affect your system stability or even cause damage of the components and devices of your system. It is done at your own risk and expense. Shuttle cannot be held responsible for possible damage caused by overclocking.

****) Teaming Mode**
The teaming function allows you to group both available network adapters together to function as a single adapter - a method of creating a virtual LAN. The benefit of this approach is that it enables load balancing and failover.

*****) Optional slot bracket adapter for serial and parallel ports**
You can install an optional slot bracket adapter which can be used to provide one serial and one parallel port at the back panel. The cable of this adapter will be connected to the onboard LPC port and one expansion slot will be occupied by the adapter.

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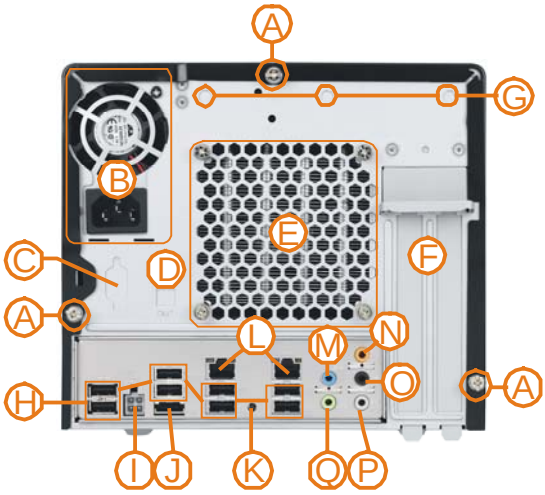
Shuttle XPC Barebone J3 5800P – Connectors and Components

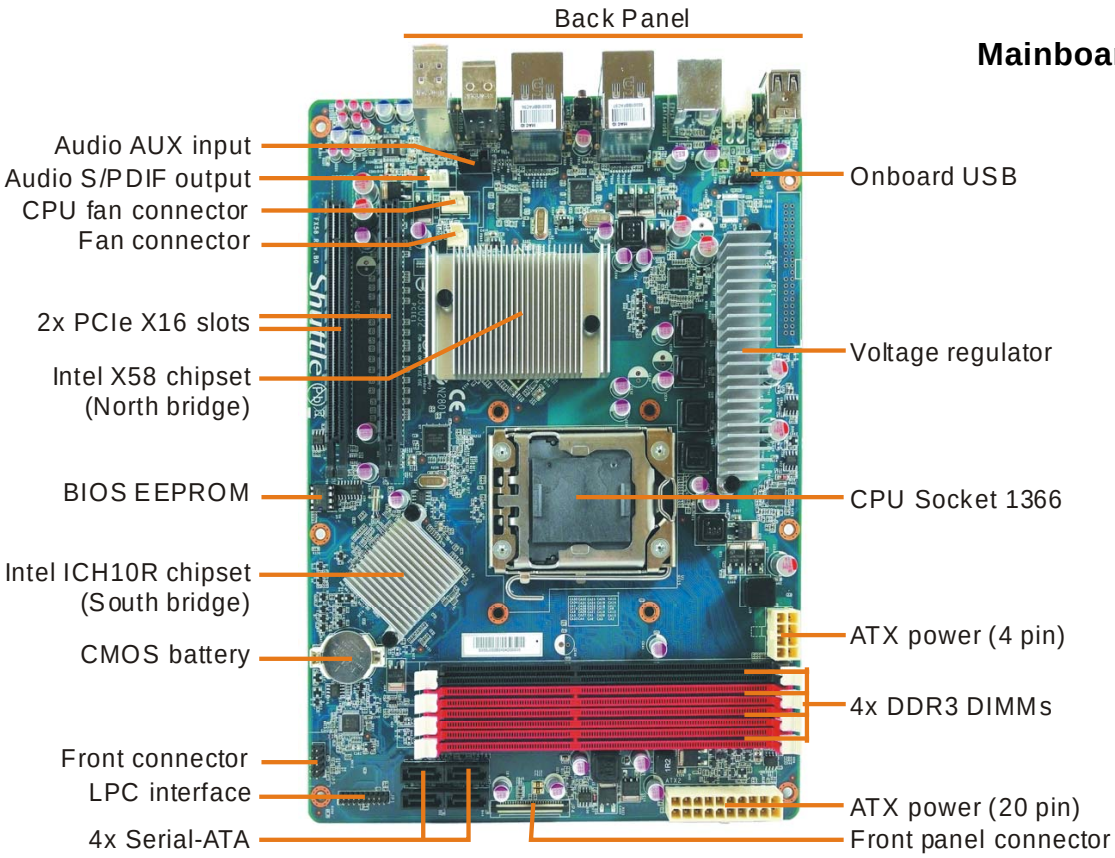
Front Panel

Back Panel



1	Optical drive	**A**	Three thumbscrews	**I**	Power port for eSATA
2	Eject button	**B**	Power supply with fan and AC power socket	**J**	eSATA port
3	Hard disk LED			**K**	Clear CMOS button
4	Power switch, Power LED	**C**	Optional serial port	**L**	2x Gigabit LAN ports
5	4-in-1 card reader	**D**	Optional S/PDIF output	**M**	Audio Line-in
6	USB 2.0 port	**E**	Heat pipe cooling fan	**N**	Audio Center/Bass
7	Microphone input	**F**	2x PCIe X16 slots	**O**	Audio Surround-Back
8	Headphone output	**G**	Optional WLAN	**P**	Audio Surround-Side
9	eSATA+USB combo port	**H**	8x USB 2.0 ports	**Q**	Audio Surround-Front

Mainboard



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