

# Shuttle®

# XPC Barebone

# SH87R6

Innovative & Appealing



## SHUTTLE CUBE PC WITH HEAT-PIPE COOLING

For LGA1150 “Haswell” Processors

The newly designed Shuttle XPC Barebone SH87R6 packs a lot of computing power using the 4th Generation of Intel Core desktop processors. The SH87R6 comes with a newly designed aluminum chassis. Its black-brushed surface and elegant shape, about one third the size of a standard mid tower, makes it very appealing in any environment. Despite its small dimensions it is brimming with features. Add the latest Intel Core i7 Quad Core processor, a dual-slot PCI Express graphics card, mSATA-SSD, two 4 TB hard disks in RAID mode and 32 GB DDR3-1600 memory plus Blu-ray drive, and you have a powerful PC with superior graphics performance with low energy consumption. Convince yourself of the versatility and stylish exterior of this Shuttle XPC!

## PRODUCT SPECIFICATIONS

R6 Chassis	<ul style="list-style-type: none"><li>• Black Aluminum Chassis (14.2 Liter)</li><li>• Bays: 1 x 5.25" External, 2 x 3.5" Internal</li></ul>
CPU	<ul style="list-style-type: none"><li>• Supports Socket LGA1150 4<sup>th</sup> Gen. Desktop CPUs</li><li>• Supports Intel Core i3, i5, i7 CPU</li><li>• 22nm “Haswell” Processors up to 95W</li><li>• Shuttle I.C.E Heat-Pipe Cooling System</li></ul>
Expansion Slots	<ul style="list-style-type: none"><li>• 1 x PCIe x 16 (v3.0) Supports Dual-Slot PCI-Express x 16 Graphic Cards</li><li>• 1 x PCIe x 1 (v2.0)</li><li>• 1 x Half-Size Mini PCIe, 1 x Full Size Mini PCIe (Supports mSATA 3 GB/s)</li></ul>
Chipset	<ul style="list-style-type: none"><li>• Intel H87 PCH (C2 Stepping or Higher)</li></ul>
Optional: Integrated Graphics	<ul style="list-style-type: none"><li>• Intel HD Graphics with HDCP &amp; 1080p – Dependent on Processor Type</li><li>• Video-Output: HDMI and DVI-I</li></ul>
Memory	<ul style="list-style-type: none"><li>• Supports Up To 32 GB RAM (4 x DDR3 DIMM)</li></ul>
Driver Connectors	<ul style="list-style-type: none"><li>• 4 x SATA 3.0 (6 GB/s), RAID, JBOD, RST</li><li>• 1 x eSATA (3 GB/s), 1 x mSATA (3 GB/s)</li></ul>
Other Connectors	<ul style="list-style-type: none"><li>• 7.1-Channel HD-Audio, SPDIF Output</li><li>• Gigabit LAN (RJ45)</li><li>• 4 x USB 3.0 (Front &amp; Back)</li><li>• 8 x USB 2.0 (Front, Back &amp; Onboard)</li><li>• Optional: RS232 COM-Port (H-RS232)</li><li>• Optional: WLAN-Kit with 1 Antenna</li></ul>
Power Supply	<ul style="list-style-type: none"><li>• 300 Watt Power Supply (80 PLUS Bronze)</li></ul>

# SH87R6 GRAPHICS FEATURES



## v3.0 For High-Performance Graphics Cards

The Shuttle XPC Barebone SH87R6 supports the new PCI-Express x16 Version 3.0 specification in combination with the 22nm Intel Haswell processor slot delivering a bandwidth of up to 16GB/s which is twice the speed of PCI-E 1.0. So there is plenty of potential for the newest graphics cards. It is downward compatible, allowing for use of the most of present graphics cards as well.

## PCI-Express 3.0 Expansion Slot Supports Dual-Slot Graphics Cards



Despite the small housing, the SH87R6 is capable of running dual-slot (double-height) PCI Express graphics cards. The system provides an additional 6-pin power connector for the demanding graphics cards. Please refer to the support list for detailed support information.

## Built-in Intel® HD Graphics Engine\*



The integrated Intel graphics processor has been moved onto the same die as the CPU. It supports HDMI 1.4a/1.3 standards with 3D stereoscopic playback, hardware encoding for H.264 and MPEG-2 video, full 1080p high-definition video playback, including Blu-ray disc movies, DirectX 11.1 and Shader 5.0. Depending on the processor type, it has up to 20 execution units (similar to shader/stream processors). With all these features, this GPU is comparable to entry level discrete cards.

## Video Output Options

With optional adapters (not included) DVI-D devices can be connected to the HDMI port or VGA devices to the DVI-I port, respectively.



DVI-D means the connector only outputs digital video signals.

DVI-I means digital & analog video signals are put out.

HDMI supports digital video plus multi-channel digital audio output.



## Dual View Technology with HDMI and DVI

Dual View technology offers multiple display support on up to two separate monitors. This allows the spread of multiple windows across two monitors while working simultaneously to improve productivity. SH87R6 features two video outputs: HDMI and DVI-I.



## Supports 4 Displays in Combination with a Graphics Card

The Shuttle SH87R6 supports up to 4 displays in combination with a discrete PCI-Express graphics card, based on the Switchable Graphics feature. Extend your Windows desktop across up to 4 monitors in one line, but note it does not support a 2x2 configuration or clone mode to all connected monitors.

**\*NOTE:** The integrated graphics is located in the processor. Certain processor models may not include the integrated graphics.