

Integrated Heat Spreader (IHS):
The integrated metal heat spreader spreads heat from the silicon chips and protects them. The IHS acts as contact for the heatsink and provides more surface area leading to better cooling.

Silicon chips (dies): The two dies inside the Intel® Core® 2 Extreme quad-core processor are 143 mm² in size and utilize a whopping 291 million transistors each. The four cores are based on the Intel® Core® Microarchitecture with innovative features like Wide Dynamic Execution, Advanced Digital Media Boost, Smart Memory Access and Intelligent Power Capability. The Advanced Smart Caches have 4 MByte capacity each.

Substrate: The dies are mounted directly to the substrate which facilitates the contact to the motherboard and chipset of the PC via 775 contacts and electrical connections.

