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Understanding [Embedded - Microprocessors](#)

Embedded microprocessors are specialized computing chips designed to perform specific tasks within an embedded system. Unlike general-purpose microprocessors found in personal computers, embedded microprocessors are tailored for dedicated functions within larger systems, offering optimized performance, efficiency, and reliability. These microprocessors are integral to the operation of countless electronic devices, providing the computational power necessary for controlling processes, handling data, and managing communications.

Applications of [Embedded - Microprocessors](#)

Embedded microprocessors are utilized across a broad spectrum of applications, making them indispensable in

Details

| | |
|---------------------------------|---|
| Product Status | Obsolete |
| Core Processor | i5-750 |
| Number of Cores/Bus Width | 4 Core, 64-Bit |
| Speed | 2.66GHz |
| Co-Processors/DSP | - |
| RAM Controllers | - |
| Graphics Acceleration | - |
| Display & Interface Controllers | - |
| Ethernet | - |
| SATA | - |
| USB | - |
| Voltage - I/O | - |
| Operating Temperature | - |
| Security Features | - |
| Package / Case | 1156-LGA Module |
| Supplier Device Package | 1156-LGA (37.5x37.5) |
| Purchase URL | https://www.e-xfl.com/product-detail/advantech/96mpi5-2-66-8m11t |

Language: [English](#)

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[Product Specs](#) [Intel® Processors](#) [Previous Generation Intel® Core™ i5 Processor](#) [Intel® Core™ i5-700 Desktop Processor Series](#) [i5-750](#)





Intel® Core™ i5-750 Processor
(8M Cache, 2.66 GHz)

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| Specifications | Specifications |
|---|--|
| Essentials | Essentials |
| Memory Specifications | Status Launched |
| Graphics Specifications | Launch Date Q3'09 |
| Expansion Options | Processor Number i5-750 |
| Package Specifications | # of Cores 4 |
| Advanced Technologies | # of Threads 4 |
| Ordering / sSpecs / Steppings | Clock Speed 2.66 GHz |
| Ordering / sSpecs / Steppings | Max Turbo Frequency 3.2 GHz |
| Compatible Products | Intel® Smart Cache 8 MB |
| Desktop Boards | Bus/Core Ratio 20 |
| Chipsets | DMI 2.5 GT/s |
| Block Diagrams | Instruction Set 64-bit |
| | Instruction Set Extensions SSE4.2 |
| | Embedded Options Available Yes |
| | Lithography 45 nm |
| | Max TDP 95 W |
| | VID Voltage Range 0.6500V-1.4000V |
| | Recommended Channel Price \$196.00 |
| | Memory Specifications |
| | Max Memory Size (dependent on memory type) 16 GB |
| | Memory Types DDR3-1066/1333 |
| | # of Memory Channels 2 |
| | Max Memory Bandwidth 21 GB/s |
| | Physical Address Extensions 36-bit |
| | Graphics Specifications |
| | Integrated Graphics  No |
| | Expansion Options |
| | PCI Express Revision 2.0 |
| | PCI Express Configurations  1x16, 2x8 |
| | # of PCI Express Ports 1 |
| | Package Specifications |
| | Max CPU Configuration 1 |
| | Tcase 72.7°C |
| | Package Size 37.5mm x 37.5mm |
| | Processing Die Size 296 mm² |
| | # of Processing Die Transistors 774 million |
| | Sockets Supported LGA1156 |
| | Halogen Free Options Available Yes |



| | |
|---|-----|
| Intel® Hyper-Threading Technology | No |
| Intel® Virtualization Technology (VT-x) | Yes |
| Intel® Trusted Execution Technology | No |
| AES New Instructions | No |
| Intel® 64 | Yes |
| Idle States | Yes |
| Enhanced Intel SpeedStep® Technology | Yes |
| Intel® Demand Based Switching | No |
| Thermal Monitoring Technologies | No |
| Execute Disable Bit | Yes |

Ordering and Spec Information

Ordering and Spec Information

Intel® Core™ i5-750 Processor (8M Cache, 2.66 GHz) FC-LGA8, Tray

| Socket | Step | Step TDP | Ordering Code | Spec Code | Halogen Free | VT-x |
|---------|------|----------|-----------------|-----------|--------------|------|
| LGA1156 | B1 | 95 W | BV80605001911AP | SLBLC | Yes | Yes |

Boxed Intel® Core™ i5-750 Processor (8M Cache, 2.66 GHz) FC-LGA8

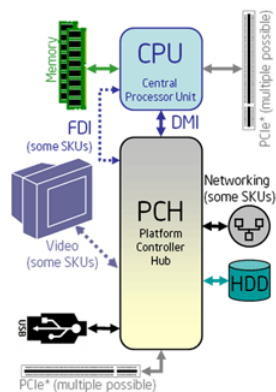
| Socket | Step | Step TDP | Ordering Code | Spec Code | Halogen Free | VT-x |
|---------|------|----------|---------------|-----------|--------------|------|
| LGA1156 | B1 | 95 W | BX8060515750 | SLBLC | Yes | Yes |

Compatible Products

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[Chipsets](#)

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Block Diagrams



Disclaimers

*Approved SKUs are not yet available. Please refer to the Launch Data for product availability.



64-bit computing on Intel® architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. Consult with your system vendor for more information.

Hyper-Threading Technology (HT Technology) requires a computer system with an Intel® processor supporting HT Technology and an HT Technology enabled chipset, BIOS and operating system. Performance will vary depending on the specific hardware and software you use. See www.intel.com/products/ht/hyperthreading_more.htm for more information including details on which processors support HT Technology.

Intel® Virtualization Technology requires a computer system with a processor, chipset, BIOS, virtual machine monitor (VMM) and for some uses, certain platform software, enabled for it. Functionality, performance or other benefit will vary depending on hardware and software configurations. Intel Virtualization Technology-enabled VMM applications are currently in development.

Note: Prices subject to change without notice. Prices are for direct Intel customers in 1000-unit bulk quantities and, unless specified, represent the latest technology versions of the products. Taxes and shipping, etc. not included. Prices may vary for other package types and shipment quantities, and special promotional arrangements may apply.

Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. See http://www.intel.com/products/processor_number for details.

System and Maximum TDP is based on worst case scenarios. Actual TDP may be lower if not all I/Os for chipsets are used.

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Halogen Free implies the following:

Bromine and/or chlorine in materials that may be used during processing, but do not remain within the final product are not included in this definition. The halogens fluorine (F), iodine (I), and astatine (At) are not restricted by this standard.

"BFR/CFR and PVC-Free" Definition: :

All PCB laminates must meet Br and Cl requirements for low halogen as defined in IPC-4101B

For components other than PCB laminates, all homogeneous materials must contain < 900 ppm (0.09%) of Bromine [if the Bromine (Br) source is from BFRs] and < 900 ppm (0.09%) of Chlorine [if the Chlorine (Cl) source is from CFRs or PVC. Higher concentrations of Br and Cl are allowed in homogenous materials of components other than PCB laminates as long as their sources are not BFRs, CFRs, PVC.

Although the elemental analysis for Br and Cl in homogeneous materials can be performed by any analytical method with sufficient sensitivity and selectivity, the presence or absence of BFRs, CFRs or PVC must be verified by any acceptable analytical techniques that allow for the unequivocal identification of the specific Br or Cl compounds, or by appropriate material declarations agreed to between customer and supplier.

Max Turbo Frequency refers to the maximum single-core frequency that can be achieved with Intel® Turbo Boost Technology, which requires a PC with a processor with Intel Turbo Boost Technology capability. Intel Turbo Boost Technology performance varies depending on hardware, software, and overall system configuration. Check with your PC manufacturer on whether your system delivers Intel Turbo Boost Technology. See www.intel.com/technology/turboboost/ for more information.