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Intel® Xeon® Processor L5518 (8M Cache, 2.13 GHz, 5.86 GT/s Intel® QPI)

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Essentials

Status	Launched
Launch Date	Q1'09
Embedded	✓
Supplemental SKU	✗
Lithography	45 nm
Max TDP	60 W

Processor Specifications

Processor Number	L5518
# of Cores	4
Clock Speed	2.13 GHz
L2 Cache	8 MB
Intel® QPI Speed	5.86 GT/s
# of QPI Links	2
Instruction Set	64-bit
Core Voltage	0.90V-1.99V

Memory Specifications

Max Memory Size	144 GB
Memory Types	DDR3-800/1066

Advanced Technologies

Intel® VT-x	✓
Execute Disable Bit	✓
Enhanced Intel® Speedstep Technology	✓
Halt State	✓
Intel® 64	✓
Intel® Demand Based Switching	✓
Intel® Dynamic Speed Technology	✓
Intel® Hyper-Threading Technology	✓
Intel® Trusted Execution Technology	✗
Intel® VT-d	✓

Block Diagrams

Additional Information

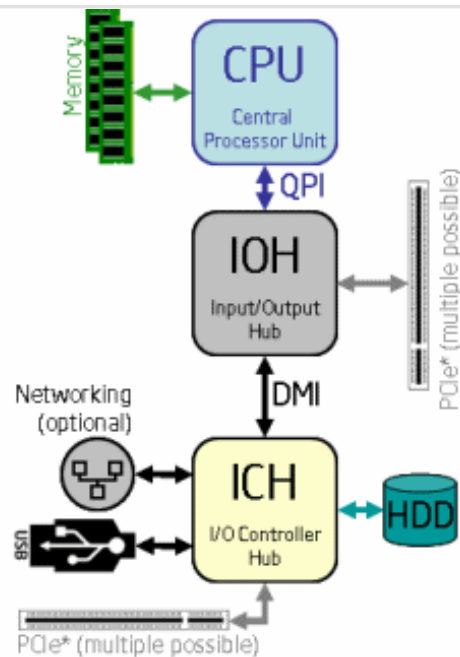
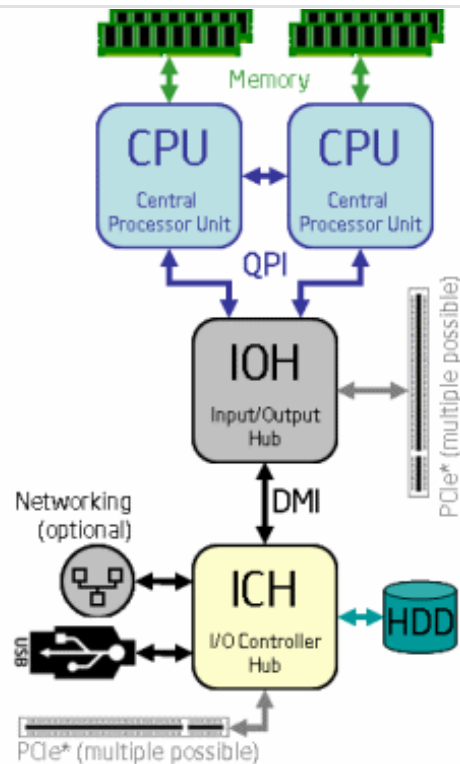
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- PCN/MDDS
- Platform Information

# of Memory Channels	6
Max Memory Bandwidth	25.6 GB/s
Physical Address Extensions	36-bit
ECC Memory Supported	✓
Max CPU Configuration	2

Package Specifications

Tcase	85C
Package Size	42.5mm x 45mm
Die Size	263 mm ²
# of Transistors	731 million
Sockets Supported	FCLGA1366
Halogen Free Options Available	✓



**Compatible
Chipsets**



Intel® 5500 Chipset

8 Configurations

Intel® 5520 Chipset

8 Configurations

Ordering & Sampling Information

Product Name	Socket	Step	Step TDP	Ordering Code	SPEC Code	Embedded	Halogen Free	VT-x
Intel® Xeon® Processor L5518 (8M Cache, 2.13 GHz, 5.86 GT/s Intel® QPI) FC-LGA8, Tray	FCLGA1366	D0	60 Watts	AT80602002265AB	SLBFW	✓	✓	✓

Retired & Discontinued

None Available

Enabling Execute Disable Bit functionality requires a PC with a processor with Execute Disable Bit capability and a supporting operating system. Check with your PC manufacturer on whether your system delivers Execute Disable Bit functionality.

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.

All information provided is subject to change at any time, without notice. Intel may make changes to manufacturing life cycle, specifications, and product descriptions at any time, without notice.

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:
An article must meet all of the following requirements to be defined as “BFR/CFR and PVC-Free”:
1. All PCB laminates must meet Br and Cl requirements for low halogen as defined in IPC-4101B
2. 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.
3. 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.

