Intel® Xeon® Processor LV 5148

4M Cache, 2.33 GHz, 1333 MHz FSB

Retired and discontinued

Boxed Intel® Xeon® Processor LV 5148 (4M Cache, 2.33 GHz, 1333 MHz FSB) LGA771

Spec Code	SL9RR
Ordering Code	BX805565148A
Step	B2

Boxed Intel® Xeon® Processor LV 5148 (4M Cache, 2.33 GHz, 1333 MHz FSB) LGA771

Spec Code	SLABH
Ordering Code	BX805565148A
Step	B2

Boxed Intel® Xeon® Processor LV 5148 (4M Cache, 2.33 GHz, 1333 MHz FSB) LGA771

Spec Code	SLAG4
Ordering Code	BX805565148A
Step	G0

Boxed Intel® Xeon® Processor LV 5148 (4M Cache, 2.33 GHz, 1333 MHz FSB) Passive, LGA771

Spec Code	SLAG4
Ordering Code	BX805565148P
Step	G0

Intel® Xeon® Processor LV 5148 (4M Cache, 2.33 GHz, 1333 MHz FSB) LGA771, Tray

Spec Code	SL9RR
Ordering Code	HH80556JJ0534M
Step	B2

Intel® Xeon® Processor LV 5148 (4M Cache, 2.33 GHz, 1333 MHz FSB) LGA771, Tray

Spec Code	SLABH
Ordering Code	HH80556JJ0534M
Step	B2

Intel® Xeon® Processor LV 5148 (4M Cache, 2.33 GHz, 1333 MHz FSB) LGA771, Tray

Spec Code	SLAG4
Ordering Code	HH80556JJ0534M
Step	G0

Trade compliance information

ECCN	3A991.A.1
CCATS	NA
US HTS	8542310001

Downloads and Software

Refer to Datasheet for formal definitions of product properties and features.

“Announced” SKUs are not yet available. Please refer to the Launch Date for market availability.

Some products can support AES New Instructions with a Processor Configuration update, in particular, i7-2630QM/i7-2635QM, i7-2670QM/i7-2675QM, i5-2430M/i5-2435M, i5-2410M/i5-2415M. Please contact OEM for the BIOS that includes the latest Processor configuration update.

‡ This feature may not be available on all computing systems. Please check with the system vendor to determine if your system delivers this feature, or reference the system specifications (motherboard, processor, chipset, power supply, HDD, graphics controller, memory, BIOS, drivers, virtual machine monitor-VMM, platform software, and/or operating system) for feature compatibility. Functionality, performance, and other benefits of this feature may vary depending on system configuration.

See http://www.intel.com/content/www/us/en/architecture-and-technology/hyper-threading/hyper-threading-technology.html?wapkw=hyper+threading for more information including details on which processors support Intel® HT Technology.

Max Turbo Frequency refers to the maximum single-core processor frequency that can be achieved with Intel® Turbo Boost Technology. See www.intel.com/technology/turboboost/ for more information.

The Recommended Customer Price ("RCP") is pricing guidance for Intel products. Prices are for direct Intel customers, typically represent 1,000-unit purchase quantities, and are subject to change without notice. Taxes and shipping, etc. not included. Prices may vary for other package types and shipment quantities, and special promotional arrangements may apply. If sold in bulk, price represents individual unit. Listing of these RCP does not constitute a formal pricing offer from Intel. Please work with your appropriate Intel representative to obtain a formal price quotation.

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

Low Halogen: Applies only to brominated and chlorinated flame retardants (BFRs/CFRs) and PVC in the final product. Intel components as well as purchased components on the finished assembly meet JS-709 requirements, and the PCB / substrate meet IEC 61249-2-21 requirements. The replacement of halogenated flame retardants and/or PVC may not be better for the environment.

For benchmarking data see http://www.intel.com/performance.

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/content/www/us/en/processors/processor-numbers.html for details.

Processors that support 64-bit computing on Intel® architecture require an Intel 64 architecture-enabled BIOS.

Intel® Xeon® Processor LV 5148

4M Cache, 2.33 GHz, 1333 MHz FSB

Add to Compare

Export specifications

Essentials

Product Collection	Legacy Intel® Xeon® Processors
Code Name	Products formerly Woodcrest
Vertical Segment	Server
Processor Number	5148
Status	Launched
Launch Date	Q2'06
Lithography	65 nm
Recommended Customer Price	N/A

Performance

# of Cores	2
Processor Base Frequency	2.33 GHz
Cache	4 MB L2
Bus Speed	1333 MHz FSB
FSB Parity	Yes
TDP	40 W
Scenario Design Power (SDP)	0 W
VID Voltage Range	1.150V-1.250V

Supplemental Information

Embedded Options Available	Yes
Datasheet	View now

Memory Specifications

Physical Address Extensions	32-bit
ECC Memory Supported ‡	No

Package Specifications

Sockets Supported	LGA771
T_{CASE}	58°C
Package Size	37.5mm x 37.5mm
Processing Die Size	143 mm^2
# of Processing Die Transistors	291 million
Low Halogen Options Available	See MDDS

Advanced Technologies

Intel® Turbo Boost Technology ‡	No
Intel® Hyper-Threading Technology ‡	No
Intel® Virtualization Technology (VT-x) ‡	Yes
Intel® VT-x with Extended Page Tables (EPT) ‡	No
Intel® 64 ‡	Yes
Instruction Set	64-bit
Idle States	Yes
Enhanced Intel SpeedStep® Technology	Yes
Intel® Demand Based Switching	No
Thermal Monitoring Technologies	Yes

Security & Reliability

Intel® Trusted Execution Technology ‡	No
Execute Disable Bit ‡	Yes

More support options for Intel® Xeon® Processor LV 5148 (4M Cache, 2.33 GHz, 1333 MHz FSB)

Product Support | Downloads and Software | Support Community | Warranty and Replacement

Need more help?

Contact support

Give Feedback

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. The information herein is provided "as-is" and Intel does not make any representations or warranties whatsoever regarding accuracy of the information, nor on the product features, availability, functionality, or compatibility of the products listed. Please contact system vendor for more information on specific products or systems.

Intel classifications are for informational purposes only and consist of Export Control Classification Numbers (ECCN) and Harmonized Tariff Schedule (HTS) numbers. Any use made of Intel classifications are without recourse to Intel and shall not be construed as a representation or warranty regarding the proper ECCN or HTS. Your company as an importer and/or exporter is responsible for determining the correct classification of your transaction.

Refer to Datasheet for formal definitions of product properties and features.

"Announced" SKUs are not yet available. Please refer to the Launch Date for market availability.

Some products can support AES New Instructions with a Processor Configuration update, in particular, i7-2630QM/i7-2635QM, i7-2670QM/i7-2675QM, i5-2430M/i5-2435M, i5-2410M/i5-2415M. Please contact OEM for the BIOS that includes the latest Processor configuration update.

‡ This feature may not be available on all computing systems. Please check with the system vendor to determine if your system delivers this feature, or reference the system specifications (motherboard, processor, chipset, power supply, HDD, graphics controller, memory, BIOS, drivers, virtual machine monitor-VMM, platform software, and/or operating system) for feature compatibility. Functionality, performance, and other benefits of this feature may vary depending on system configuration.

See http://www.intel.com/content/www/us/en/architecture-and-technology/hyper-threading/hyper-threading-technology.html?wapkw=hyper+threading for more information including details on which processors support Intel® HT Technology.

Max Turbo Frequency refers to the maximum single-core processor frequency that can be achieved with Intel® Turbo Boost Technology. See www.intel.com/technology/turboboost/ for more information.

The Recommended Customer Price ("RCP") is pricing guidance for Intel products. Prices are for direct Intel customers, typically represent 1,000-unit purchase quantities, and are subject to change without notice. Taxes and shipping, etc. not included. Prices may vary for other package types and shipment quantities, and special promotional arrangements may apply. If sold in bulk, price represents individual unit. Listing of these RCP does not constitute a formal pricing offer from Intel. Please work with your appropriate Intel representative to obtain a formal price quotation.

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

Low Halogen: Applies only to brominated and chlorinated flame retardants (BFRs/CFRs) and PVC in the final product. Intel components as well as purchased components on the finished assembly meet JS-709 requirements, and the PCB / substrate meet IEC 61249-2-21 requirements. The replacement of halogenated flame retardants and/or PVC may not be better for the environment.

For benchmarking data see http://www.intel.com/performance.

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/content/www/us/en/processors/processor-numbers.html for details.

Processors that support 64-bit computing on Intel® architecture require an Intel 64 architecture-enabled BIOS.