



Intel® Xeon® Processor LV 5148

4M Cache, 2.33 GHz, 1333 MHz FSB

Specifications

Compatible Products

Product Images

Ordering and Compliance

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

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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.



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 Add to Compare

Specifications

Essentials

Performance

Supplemental Information

Memory Specifications

Package Specifications

Advanced Technologies

Security & Reliability

Ordering and Compliance

Product Images

Compatible Products

Downloads and Software

Essentials

[Export specifications](#)

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



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