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Intel® Xeon® Gold 6138 Processor

27.5M Cache, 2.00 GHz

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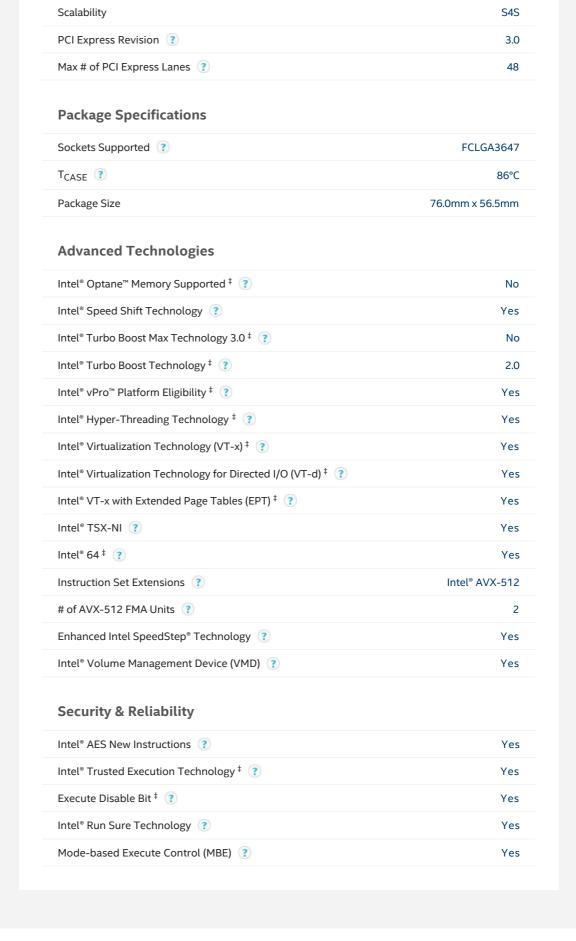
Product Images

Compatible Products

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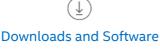
Essentials	Export specification
Product Collection	Intel® Xeon® Scalable Processors
Code Name	Products formerly Skylake
Vertical Segment	Server
Processor Number	6138
Status	Launched
Launch Date ?	Q3'17
Lithography ?	14 nm
Recommended Customer Price ?	-
Use Conditions ?	Server/Enterprise
Performance	
# of Cores ?	20
# of Threads ?	40
Processor Base Frequency ?	2.00 GHz
Max Turbo Frequency ?	3.70 GHz
Cache ?	27.5 MB L3
# of UPI Links ?	3
TDP ?	125 W
Supplemental Information	
Embedded Options Available ?	Yes
Datasheet	View now
Product Brief	View now
Memory Specifications	
Max Memory Size (dependent on memory type) 🔞	768 GB
Memory Types ?	DDR4-2666
Maximum Memory Speed	2666 MHz
Max # of Memory Channels ?	6

ECC Memory Supported ‡ ?



More support options for Intel® Xeon® Gold 6138 Processor (27.5M Cache, 2.00 GHz)











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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.

 $Some\ products\ can \ support\ AES\ New\ Instructions\ with\ a\ Processor\ Configuration\ update,\ in\ particular,\ i7-2630QM/i7-2635QM,\ i7-2670QM/i7-2635QM,\ i7-2670QM/i7-2670QM,\ i7-2670QM,\ i7-2670QM,\ i7-2670QM,\ i7-2670QM,\ i7-2670QM,\ i7-2670QM,\ i7-2670QM,\ i7-2670QM,\ i7-267$ 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.

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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