



# Intel® Xeon® Gold 6154 Processor

24.75M Cache, 3.00 GHz

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## Essentials

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Product Collection	Intel® Xeon® Scalable Processors
Code Name	Products formerly Skylake
Vertical Segment	Server
Processor Number	6154
Status	Launched
Launch Date <a href="#">?</a>	Q3'17
Lithography <a href="#">?</a>	14 nm
Recommended Customer Price <a href="#">?</a>	\$3543.00

## Performance

# of Cores <a href="#">?</a>	18
# of Threads <a href="#">?</a>	36
Processor Base Frequency <a href="#">?</a>	3.00 GHz
Max Turbo Frequency <a href="#">?</a>	3.70 GHz
Cache <a href="#">?</a>	24.75 MB L3
# of UPI Links <a href="#">?</a>	3
TDP <a href="#">?</a>	200 W

## Supplemental Information

Embedded Options Available <a href="#">?</a>	No
Datasheet	<a href="#">View now</a>
Product Brief	<a href="#">View now</a>
Additional Information URL	<a href="#">View now</a>

## Memory Specifications

Max Memory Size (dependent on memory type) <a href="#">?</a>	768 GB
Memory Types <a href="#">?</a>	DDR4-2666
Maximum Memory Speed	2666 MHz
Max # of Memory Channels <a href="#">?</a>	6
ECC Memory Supported ‡ <a href="#">?</a>	Yes

## Expansion Options

Scalability	S4S
PCI Express Revision <a href="#">?</a>	3.0
Max # of PCI Express Lanes <a href="#">?</a>	48

## Package Specifications

Sockets Supported <a href="#">?</a>	FCLGA3647
T <sub>CASE</sub> <a href="#">?</a>	82°C
Package Size	76.0mm x 56.5mm
Low Halogen Options Available	No

## Advanced Technologies

Intel® Optane™ Memory Supported † <a href="#">?</a>	No
Intel® Speed Shift Technology <a href="#">?</a>	Yes
Intel® Turbo Boost Max Technology 3.0 † <a href="#">?</a>	No
Intel® Turbo Boost Technology † <a href="#">?</a>	2.0
Intel® vPro™ Platform Eligibility † <a href="#">?</a>	Yes
Intel® Hyper-Threading Technology † <a href="#">?</a>	Yes
Intel® Virtualization Technology (VT-x) † <a href="#">?</a>	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) † <a href="#">?</a>	Yes
Intel® VT-x with Extended Page Tables (EPT) † <a href="#">?</a>	Yes
Intel® TSX-NI <a href="#">?</a>	Yes
Intel® 64 † <a href="#">?</a>	Yes
Instruction Set Extensions <a href="#">?</a>	Intel® SSE4.2, Intel® AVX, Intel® AVX2, Intel® AVX-512
# of AVX-512 FMA Units <a href="#">?</a>	2
Enhanced Intel SpeedStep® Technology <a href="#">?</a>	Yes
Intel® Volume Management Device (VMD) <a href="#">?</a>	Yes

## Security & Reliability

Intel® AES New Instructions <a href="#">?</a>	Yes
Intel® Trusted Execution Technology † <a href="#">?</a>	Yes
Execute Disable Bit † <a href="#">?</a>	Yes
Intel® Run Sure Technology <a href="#">?</a>	Yes
Mode-based Execute Control (MBE) <a href="#">?</a>	Yes

## More support options for Intel® Xeon® Gold 6154 Processor (24.75M Cache, 3.00 GHz)

Product Support

Downloads and Software

Support Community

Warranty and Replacement



Need more help?

[Contact support](#)

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

† 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.

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/](http://www.intel.com/technology/turboboost/) for more information.

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

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.

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

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

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.

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.





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### Specifications

Ordering and Compliance

**Ordering and spec information**

Trade compliance information

PCN/MDDS Information

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### Ordering and spec information

#### Intel® Xeon® Gold 6154 Processor (24.75M Cache, 3.00 GHz) FC-LGA14B, Tray

Spec Code	SR3J5
Ordering Code	CD8067303592700
Shipping Media	TRAY <a href="#">?</a>
Stepping	H0
Recommended Customer Price	\$3543.00

### Trade compliance information

ECCN	5A992C
CCATS	G077159
US HTS	8542310001

### PCN/MDDS Information

SR3J5	
958186	PCN   MDDS

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