



# Intel® Xeon® Gold 6130 Processor

22M Cache, 2.10 GHz

☐ Add to Compare

Specifications

Essentials

Performance

Supplemental Information

Memory Specifications

Expansion Options

Package Specifications

Advanced Technologies

Security & Reliability

Ordering and Compliance

Compatible products

Downloads and Software

Essentials

⬇ Export specifications

Product Collection	Intel® Xeon® Scalable Processors
Code Name	Products formerly Skylake
Vertical Segment	Server
Processor Number	6130
Status	Launched
Launch Date ?	Q3'17
Lithography ?	14 nm
Use Conditions ?	Server/Enterprise
Recommended Customer Price ?	-

Performance


# of Cores ?	16
# of Threads ?	32
Processor Base Frequency ?	2.10 GHz
Max Turbo Frequency ?	3.70 GHz
Cache ?	22 MB L3
# of UPI Links ?	3
TDP ?	125 W

Supplemental Information



Embedded Options Available ?	Yes
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) ?	768 GB
Memory Types ?	DDR4-2666
Maximum Memory Speed	2666 MHz

Max # of Memory Channels 	6
ECC Memory Supported ‡ 	Yes
















## Expansion Options

Scalability	S4S
PCI Express Revision 	3.0
Max # of PCI Express Lanes 	48






## Package Specifications

Sockets Supported 	FCLGA3647
T <sub>CASE</sub> 	87°C
Package Size	76.0mm x 56.5mm
Low Halogen Options Available	No

## Advanced Technologies

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

## Security & Reliability

Intel® AES New Instructions 	Yes
Intel® Trusted Execution Technology ‡ 	Yes
Execute Disable Bit ‡ 	Yes
Intel® Run Sure Technology 	Yes
Mode-based Execute Control (MBE) 	Yes

[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.

‡ 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.

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.

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.


[Company Information](#)
[Our Commitment](#)
[Communities](#)
[Investor Relations](#)
[Contact Us](#)
[Newsroom](#)
[Jobs](#)


© Intel Corporation | [Terms of Use](#) | [\\*Trademarks](#) | [Privacy](#) | [Cookies](#) | [Supply Chain Transparency](#) | [Site Map](#)