



Intel® Xeon® Silver 4114T Processor

13.75M Cache, 2.20 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	4114T
Status	Launched
Launch Date	Q3'17
Lithography	14 nm
Use Conditions	Communications
Recommended Customer Price	

Performance

# of Cores	10
# of Threads	20
Processor Base Frequency	2.20 GHz
Max Turbo Frequency	3.00 GHz
Cache	13.75 MB L3
# of UPI Links	2
TDP	85 W

Supplemental Information

Embedded Options Available	Yes
Datasheet	View now
Product Brief	View now
Additional Information URL	View now

Memory Specifications

Max Memory Size (dependent on memory type)	768 GB
Memory Types	DDR4-2400
Maximum Memory Speed	2400 MHz

Max # of Memory Channels 	6
ECC Memory Supported ‡ 	Yes

Expansion Options

Scalability	2S
PCI Express Revision 	3.0
Max # of PCI Express Lanes 	48

Package Specifications

Sockets Supported 	FCLGA3647
T _{CASE} 	92°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 	1
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
Mode-based Execute Control (MBE) 	Yes



Product Support



Downloads and Software



Support Community



Warranty and
Replacement



Need more help?

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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/ 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.

"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.

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.

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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