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### Intel® Xeon® Gold 5218N Processor

22M Cache, 2.30 GHz

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#### Essentials

**CPU** Specifications

Supplemental Information

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Security & Reliability

# Ordering and Compliance

#### **Product Images**

#### Compatible Products

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Technical Documentation

Essentials	Export specifications
Product Collection	2nd Generation Intel® Xeon® Scalable Processors
Code Name	Products formerly Cascade Lake
Vertical Segment	Server
Processor Number ?	5218N
Status	Launched
Launch Date ?	Q2'19
Lithography ?	14 nm
Recommended Customer Price ?	
CPU Specifications	
# of Cores ?	16
# of Threads ?	32
Processor Base Frequency ?	2.30 GHz
Max Turbo Frequency ?	3.70 GHz
Cache ?	22 MB
# of UPI Links ?	2
TDP ?	110 W
Supplemental Information	
Embedded Options Available ?	Yes
Product Brief	View now

**Memory Specifications** 

Max Memory Size (dependent on memory type) ?	1
Memory Types ?	DDR4-26
Maximum Memory Speed	2667 M
Max # of Memory Channels ?	
ECC Memory Supported ‡ ?	Υ
Intel® Optane™ Persistent Memory Supported 🍞	Υ
Expansion Options	
Scalability	
PCI Express Revision ?	:
Max # of PCI Express Lanes 🔞	
Package Specifications	
Sockets Supported ?	FCLGA36
T <sub>CASE</sub> ?	81
Package Size	76.0mm x 56.5m
Advanced Technologies	
Intel® Deep Learning Boost (Intel® DL Boost) ?	Υ
Intel® Speed Select Technology - Performance Profile ?	
Intel® Speed Select Technology - Base Frequency ?	Υ
Intel® Resource Director Technology (Intel® RDT)	Y
Intel® Speed Shift Technology ?	Υ
Intel® Turbo Boost Max Technology 3.0 ‡ 👔	ı
Intel® Turbo Boost Technology ‡ 🔞	:
Intel vPro® Platform Eligibility ‡ 👔	Υ
Intel® Hyper-Threading Technology ‡ 👔	Υ
Intel® Virtualization Technology (VT-x)‡ ?	Υ
Intel® Virtualization Technology for Directed I/O (VT-d)‡ ?	Υ
Intel® VT-x with Extended Page Tables (EPT) ‡ ?	Υ
Intel® Transactional Synchronization Extensions ?	Υ
Intel® 64 ‡ 🔞	Y
Instruction Set Extensions ? Intel® SSE4.2, Intel® A	VX, Intel® AVX2, Intel® AVX-5
# of AVX-512 FMA Units 🕐	
Enhanced Intel SpeedStep® Technology ?	Y
Intel® Volume Management Device (VMD) 🔞	Υ
Security & Reliability	
Intel® AES New Instructions ?	Y



#### More support options for Intel® Xeon® Gold 5218N Processor (22M Cache, 2.30 GHz)





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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 <a href="https://www.intel.com/technology/turboboost/">www.intel.com/technology/turboboost/</a> 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.

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.

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.

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.

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