









Search specifications



Intel® Pentium® Silver N5000 Processor

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4M Cache, up to 2.70 GHz

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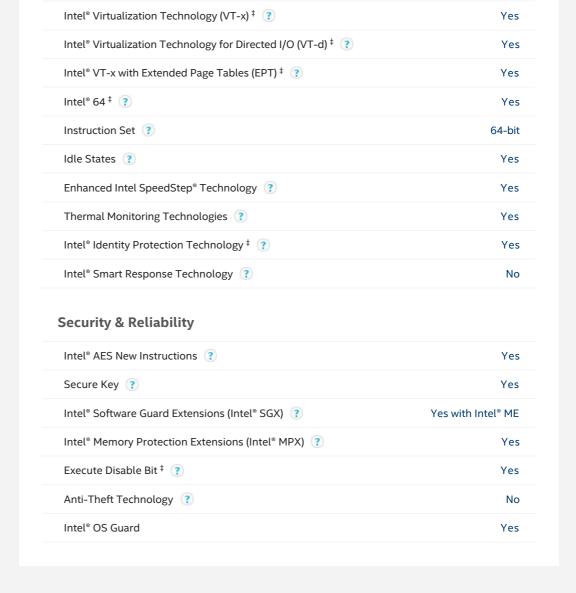
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Essentials	Export specificat
Product Collection	Intel® Pentium® Silver Processor Serie
Code Name	Products formerly Gemini Lake
Vertical Segment	Mobil
Processor Number	N5000
Status	Launched
Launch Date ?	Q4'1'
Lithography ?	14 nn
Performance	
# of Cores 🔞	
# of Threads 🔞	
Processor Base Frequency ?	1.10 GH:
Burst Frequency ?	2.70 GH:
Cache ?	4 ME
TDP ?	6 V
Scenario Design Power (SDP) 👔	4.8 V
Supplemental Information	
Embedded Options Available ?	Ne
Product Brief	View nov
Memory Specifications	
Max Memory Size (dependent on memory type) 🔞	8 GF
Memory Types ?	DDR4/LPDDR4 upto 2400 MT/
Max # of Memory Channels ?	
ECC Memory Supported [‡] ?	Ne
Processor Graphics	
Processor Graphics ‡ ?	Intel® UHD Graphics 609

Graphics Base Frequency ?	200 N
Graphics Max Dynamic Frequency ?	750 N
Graphics Video Max Memory 🔞	8
Graphics Output ?	eDP/DP/HDMI/MIPI-
Execution Units ?	
4K Support ?	Yes, at 6
DirectX* Support ?	
OpenGL* Support ?	
# of Displays Supported ‡	
Device ID	0x3
Expansion Options	
PCI Express Revision ?	
PCI Express Configurations ‡ ?	1x4 + 1x2 or 4x1 or 2x1+1x2 +
Max # of PCI Express Lanes ?	
I/O Specifications	
# of USB Ports	
USB Revision ?	2.0
Total # of SATA Ports ?	
Integrated LAN ?	
Integrated Wireless [‡]	Intel® Wireless-AC N
General Purpose IO	
UART	,
Max # of SATA 6.0 Gb/s Ports	
Package Specifications	
Sockets Supported ?	FCBGA10
Max CPU Configuration	
Thermal Solution Specification ?	105 de
T _{JUNCTION} ?	105 de
Package Size	25mm x 24l
Advanced Technologies	
Intel® Optane™ Memory Supported ‡ ?	
Intel® Speed Shift Technology ?	
Intel® Turbo Boost Max Technology 3.0 ‡ 👔	
Intel® Turbo Boost Technology ‡ 😯	
Intel® vPro™ Platform Eligibility ‡ ?	
Intel® Hyper-Threading Technology ‡ ?	



More support options for Intel® Pentium® Silver N5000 Processor (4M Cache, up to 2.70 GHz)





Downloads and Software



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Warranty and Replacement



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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.

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.

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.

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.

Check http://ipt.intel.com/ for systems that support Intel® Identity Protection Technology (Intel® IPT).

 $See http://www.intel.com/content/www/us/en/architecture-and-technology/hyper-threading/hyper-threading-technology. \\html? wapkw=hyper+threading for more information including details on which processors support Intel® HT Technology. \\$

Intel® Smart Response Technology requires a select Intel® Core™ processor, an enabled chipset, Intel® Rapid Storage Technology software, and a properly configured hybrid drive (HDD + small SSD). Depending on system configuration, your results may vary. Contact your system manufacturer for more information.

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.



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