









# Intel<sup>®</sup> Core<sup>™</sup> i9-9940X X-series Processor

Add to Compare

19.25M Cache, up to 4.50 GHz

### Specifications

#### Essentials

Performance

Supplemental Information

Memory

Specifications

**Expansion Options** 

Package

Specifications

Advanced

Technologies

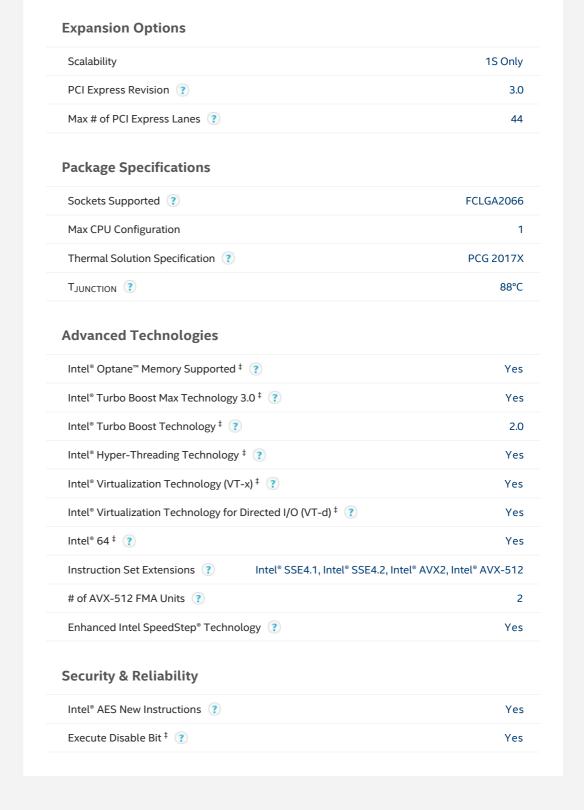
Security & Reliability

## Ordering and Compliance

## Compatible products

Downloads and Software

Essentials	Export specificat
Product Collection	Intel® Core™ X-series Processor
Code Name	Products formerly Skylake
Vertical Segment	Desktop
Processor Number	i9-9940>
Status	Launched
Launch Date ?	Q4'18
Lithography ?	14 nm
Included Items Please note: The boxed product of	does not include a fan or heat sink
Performance	
# of Cores 🔞	14
# of Threads ?	28
Processor Base Frequency ?	3.30 GHz
Max Turbo Frequency 💿	4.40 GH:
Cache ?	19.25 MB SmartCache
Bus Speed ?	8 GT/s DMI
# of QPI Links ?	(
Intel® Turbo Boost Max Technology 3.0 Frequency ‡ 🕧	4.50 GHz
TDP ?	165 W
Supplemental Information	
Embedded Options Available 🕐	No
Datasheet	View now
Memory Specifications	
Max Memory Size (dependent on memory type) ?	128 GE
Memory Types 🔞	DDR4-2666
Max # of Memory Channels ?	4



More support options for Intel® Core™ i9-9940X X-series Processor (19.25M Cache, up to 4.50 GHz)





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 <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.

Some products can support AES New Instructions with a Processor Configuration update, in particular, i7-2630QM/i7-2635QM, i7-2675QM/i5-2435M, i5-2430M/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.

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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