

Intel® Xeon® D-1747NTE Processor

15M Cache, up to 3.50 GHz

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Product Collection

Intel® Xeon® D Processor

Code Name

Products formerly Ice Lake

Vertical Segment

Server

Processor Number ⓘ

D-1747NTE

Lithography ⓘ

10 nm

Recommended Customer Price ⓘ

\$1320.00

CPU Specifications

Total Cores ⓘ10

# of Performance-cores10

Total Threads ⓘ20

Max Turbo Frequency ⓘ3.50 GHz

Processor Base Frequency ⓘ2.50 GHz

Cache ⓘ15 MB

Max # of UPI Links ⓘ0

TDP ⓘ80 W

Intel® Deep Learning Boost (Intel® DL Boost) on CPU ⓘYes

Supplemental Information

Marketing StatusLaunched

Launch Date ⓘQ1'22

Embedded Options Available ⓘNo

Use Conditions ⓘAutomotive, Base Transceiver Station, Communications Commercial Temp, Communications Extended Temp, Embedded Broad Market Commercial Temp, Embedded Broad Market Extended Temp, Industrial Commercial Temp, Industrial Extended Temp, Server/Enterprise

Product BriefView now

Memory Specifications

Max Memory Size (dependent on memory type) ⓘ384 GB

Memory Types ⓘDDR4

Maximum Memory Speed2933 MHz

Max # of Memory Channels ⓘ3

Intel® Optane™ Persistent Memory Supported ⓘNo

ECC Memory Supported¹ ⓘYes

Expansion Options

Scalability1S Only

PCI Express Revision ⓘ4.0

Microprocessor PCIe Revision ⓘGen 4

Chipset / PCH PCIe Revision ⓘGen 3

Max # of PCI Express Lanes ⓘ16

I/O Specifications

# of USB Ports4

USB Revision ⓘ3.0

Integrated LAN ⓘYes

Max # of SATA 6.0 Gb/s Ports24

Package Specifications

Sockets Supported ⓘFCBGA2227

Package Size45mm x 45mm

Advanced Technologies

Intel® Volume Management Device (VMD) ⓘYes

Intel® Resource Director Technology (Intel® RDT) ⓘYes

Intel® Optane™ Memory Supported¹ ⓘNo

Intel® Turbo Boost Technology¹ ⓘ2.0

Intel® Hyper-Threading Technology¹ ⓘYes

Intel® 64¹ ⓘYes

Instruction Set ⓘ64-bit

Instruction Set Extensions ⓘIntel® AVX-512

# of AVX-512 FMA Units ⓘ1

Enhanced Intel SpeedStep® Technology ⓘYes

Thermal Monitoring Technologies ⓘYes

Integrated Intel® QuickAssist Technology ⓘYes

Security & Reliability

Intel® Software Guard Extensions (Intel® SGX) ⓘYes with Intel® SPS

Default Maximum Enclave Page Cache (EPC) Size for Intel® SGX64 GB

Intel® QuickAssist Software AccelerationYes

Intel® Total Memory Encryption ⓘYes

Intel® AES New Instructions ⓘYes

Intel® Trusted Execution Technology¹ ⓘYes

Execute Disable Bit¹ ⓘYes

Intel® Boot Guard ⓘYes

Intel® Platform Firmware Resilience SupportYes

Intel® Crypto Acceleration ⓘYes

Intel® Virtualization Technology (VT-x)¹ ⓘYes

Intel® Virtualization Technology for Directed I/O (VT-d)¹ ⓘYes

or warranty regarding the proper EECN 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, SVM, platform software and/or operating system) for feature compatibility. Functionality, performance and other benefits of this feature may vary depending on system configuration.

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.

Recommended Customer Price (RCP) is pricing guidance only for Intel products. Prices are for direct Intel customers, usually represent 1,000-unit purchase quantities, and are subject to change without notice. Prices may vary for other package types and shipment quantities. In bulk, price represents individual unit. Listing of RCP does not constitute a formal pricing offer from Intel.

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.

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 and applicability of this technology.

See <http://www.intel.com/content/www/us/en/architecture-and-technology/hyper-threading/hyper-threading-technology.htm?vkapiv=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.

Some products can support AES New Instructions with a Processor Configuration update. In particular, (7-2630QM)/(7-2638QM), (7-2670QM)/(7-2675QM), (8-2430M)/(8-2435M), (8-2410M)/(8-2415M). Please contact OEM for the BIOS that includes the latest Processor configuration update.

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