

intel

XEON

D

Intel® Xeon® D-2712T Processor

15M Cache, up to 3.00 GHz

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Specifications

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Essentials	Essentials		Download Specifications ↓
CPU Specifications	Product Collection	Intel® Xeon® D Processor	
Supplemental Information	Code Name	Products formerly Ice Lake	
Memory Specifications	Vertical Segment	Server	
Expansion Options	Processor Number ⓘ	D-2712T	
I/O Specifications	Lithography ⓘ	10 nm	
Package Specifications	Recommended Customer Price ⓘ	\$363.00	
Advanced Technologies	Use Conditions ⓘ	Automotive, Base Transceiver Station, Communications Commercial Temp, Embedded Broad Market Commercial Temp, Industrial Commercial Temp, Server/Enterprise	
Security & Reliability			
CPU Specifications			
Total Cores ⓘ		4	
# of Performance-cores		4	
Total Threads ⓘ		8	
Max Turbo Frequency ⓘ		3.00 GHz	
Processor Base Frequency ⓘ		1.90 GHz	
Cache ⓘ		15 MB	
Max # of UPI Links ⓘ		0	
TDP ⓘ		65 W	
Intel® Deep Learning Boost (Intel® DL Boost) on CPU ⓘ		Yes	
Supplemental Information			
Marketing Status		Launched	
Launch Date ⓘ		Q1'22	
Embedded Options Available ⓘ		Yes	
Product Brief		View now	
Memory Specifications			
Max Memory Size (dependent on memory type) ⓘ		1 TB	
Memory Types ⓘ		DDR4	
Maximum Memory Speed		2667 MHz	
Max # of Memory Channels ⓘ		4	
Intel® Optane™ Persistent Memory Supported ⓘ		No	
ECC Memory Supported [†] ⓘ		Yes	
Expansion Options			
Scalability		1S Only	
PCI Express Revision ⓘ		4.0	
Microprocessor PCIe Revision ⓘ		Gen 4	
Chipset / PCH PCIe Revision ⓘ		Gen 3	
Max # of PCI Express Lanes ⓘ		32	
I/O Specifications			
# of USB Ports		4	
USB Revision ⓘ		3.0	
Integrated LAN ⓘ		Yes	
Max # of SATA 6.0 Gb/s Ports		24	
Package Specifications			
Sockets Supported ⓘ		FCBGA2579	
Package Size		52.5 x 45mm	
Advanced Technologies			
Intel® Resource Director Technology (Intel® RDT) ⓘ		Yes	
Intel® Optane™ Memory Supported [†] ⓘ		No	
Intel® Turbo Boost Technology [‡] ⓘ		2.0	
Intel® Hyper-Threading Technology [‡] ⓘ		Yes	
Intel® 64 [‡] ⓘ		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 ⓘ		No	
Intel® Volume Management Device (VMD) ⓘ		Yes	
Security & Reliability			
Intel® QuickAssist Software Acceleration		No	
Intel® Total Memory Encryption ⓘ		Yes	
Intel® AES New Instructions ⓘ		Yes	
Intel® Software Guard Extensions (Intel® SGX) ⓘ		Yes with Intel® SPS	
Intel® Trusted Execution Technology [‡] ⓘ		Yes	
Execute Disable Bit [‡] ⓘ		Yes	
Intel® Boot Guard ⓘ		Yes	
Intel® Platform Firmware Resilience Support		Yes	
Default Maximum Enclave Page Cache (EPC) Size for Intel® SGX		64 GB	
Intel® Crypto Acceleration ⓘ		Yes	
Intel® Virtualization Technology (VT-x) [‡] ⓘ		Yes	
Intel® Virtualization Technology for Directed I/O (VT-d) [‡] ⓘ		Yes	

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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.

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.

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/ 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.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.

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.