



Intel® Xeon® 6737P Processor

144M Cache, 2.90 GHz

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Essentials

Product Collection	Intel® Xeon® 6 processors
Code Name	Products formerly Granite Rapids
Vertical Segment	Server
Processor Number 	6737P
Lithography 	Intel 3
Recommended Customer Price 	\$5594.00

CPU Specifications

Total Cores 	32
Total Threads 	64
Max Turbo Frequency 	4 GHz
All Core Turbo Frequency 	4 GHz
Processor Base Frequency 	2.9 GHz
Cache 	144 MB
Intel® UPI Speed	24 GT/s
Max # of UPI Links 	4
TDP 	270 W

Supplemental Information

Marketing Status	Launched
Launch Date 	Q1'25
Embedded Options Available 	No

Memory Specifications

4 TB

DDR5(6400MT/s)

6400 MT/s

8

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ECC Memory Supported ‡ ⓘ	Yes
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Expansion Options

Scalability	2S
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PCI Express Revision ⓘ	5.0
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Max # of PCI Express Lanes ⓘ	88
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Package Specifications

Sockets Supported ⓘ	FCLGA4710
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Package Carrier	E2B
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DTS Max	102 °C
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T _{CASE} ⓘ	82 °C
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Package Size	77.5mm x 56.5mm
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Advanced Technologies

Intel® QuickAssist Technology (QAT)	4 default devices
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Intel® Dynamic Load Balancer (DLB)	4 default devices
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Intel® Data Streaming Accelerator (DSA)	4 default devices
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Intel® In-memory Analytics Accelerator (IAA)	4 default devices
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Intel® Advanced Matrix Extensions (AMX)	Yes
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Intel® Speed Select Technology – Core Power ⓘ	Yes
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Intel® Speed Select Technology – Turbo Frequency ⓘ	Yes
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Intel® Deep Learning Boost (Intel® DL Boost) on CPU ⓘ	Yes
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Intel® Speed Select Technology - Performance Profile ⓘ	No
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Intel® Speed Select Technology - Base Frequency ⓘ	Yes
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High Priority Cores	12
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High Priority Core Frequency	3 GHz
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Low Priority Cores	20
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Low Priority Core Frequency	2.8 GHz
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Intel® Resource Director Technology (Intel® RDT) ⓘ	Yes
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Intel® Speed Shift Technology ⓘ	Yes
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Intel® Turbo Boost Technology ‡ ⓘ	2.0
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Yes

Yes

Yes

Instruction Set Extensions ?	Intel® SSE4.2, Intel® AVX, Intel® AVX2, Intel® AVX-512, Intel® AMX
# of AVX-512 FMA Units ?	2
Intel® Volume Management Device (VMD) ?	Yes
Security & Reliability	
Intel® Trust Domain Extensions (Intel® TDX) ?	Yes
Intel® Secure Key ?	Yes
Intel® Crypto Acceleration ?	Yes
Intel® QuickAssist Software Acceleration	Yes
Intel® Platform Firmware Resilience Support	Yes
Intel® Control-Flow Enforcement Technology ?	Yes
Intel® Total Memory Encryption - Multi Key	Yes
Intel® Total Memory Encryption ?	Yes
Intel® AES New Instructions ?	Yes
Intel® Software Guard Extensions (Intel® SGX) ?	Yes
Default Maximum Enclave Page Cache (EPC) Size for Intel® SGX	512 GB
Intel® OS Guard	Yes
Intel® Trusted Execution Technology ‡ ?	Yes
Execute Disable Bit ‡ ?	Yes
Intel® Boot Guard ?	Yes
Intel® Run Sure Technology ?	Yes
Mode-based Execute Control (MBEC) ?	Yes
Intel® Virtualization Technology (VT-x) ‡ ?	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) ‡ ?	Yes
Intel® VT-x with Extended Page Tables (EPT) ‡ ?	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

controller, memory, BIOS, functionality, performance,

each processor family, not [Intel.com/processors.html](#) for details.

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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 <https://www.intel.com/content/www/us/en/gaming/resources/turbo-boost.html> 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.

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