

FOUR & EIGHT SOCKET SCALABLE PERFORMANCE

SKU	CORES	BASE (GHz)	SINGLE CORE TURBO (GHz)	ALL CORE TURBO (GHz)	CACHE (MB)	TDP (Watts)	Support for Intel Optane Persistent Memory 200 Series	Recommended Customer Pricing (RCP) in \$ US Dollars
8380HL	28	2.9	4.3	3.8	38.5	250	Yes	\$13012
8380H	28	2.9	4.3	3.8	38.5	250	Yes	\$10009
8376HL	28	2.6	4.3	3.5	38.5	205	Yes	\$11772
8376H	28	2.6	4.3	3.5	38.5	205	Yes	\$8719
8360HL	24	3.0	4.2	3.8	33	225	Yes	\$7203
8360H	24	3.0	4.2	3.8	33	225	Yes	\$4200
8356H	8	3.9	4.4	4.3	35.75	190	Yes	\$3400
8354H	18	3.1	4.3	4.0	24.75	205	Yes	\$3500
8353H	18	2.5	3.8	3.3	24.75	150	Yes	\$3003
6348H	24	2.3	4.2	3.1	33	165	Yes	\$2700
6330H	24	2.0	3.7	2.8	33	150	Yes	\$1894
6328HL	16	2.8	4.3	3.7	22	165	Yes	\$4779
6328H	16	2.8	4.3	3.7	22	165	Yes	\$1776
5320H	20	2.4	4.2	3.3	27.5	150	Yes	\$1555
5318H	18	2.5	3.8	3.3	24.75	150	Yes	\$1273

H and HL SKUs are only supported on a unique 4 or 8-socket platform. Please contact your hardware provider for a list of system availability supporting your specific SKU configuration.

H SKUs are configured to support up to 1.12 TB of system memory, per processor.
HL SKUs are configured to support up to 4.5 TB of system memory, per processor.
H and HL SKUs are validated for up to 256 GB capacity DRAM memory modules, as of March 2021.

H and HL SKUs support Intel Optane persistent memory 200 series in a 4-socket platform only.
H SKUs are validated for up to 768 GB of Intel Optane persistent memory 200 series, per processor.
HL SKUs are validated for up to 3 TB of Intel Optane persistent memory 200 series, per processor.

6330H, 6328H, 6328HL & 5320H processors include Intel Speed Select technology (Intel SST) supporting Intel SST Core Power (SST-CP) and Intel SST Turbo Frequency (SST-TF) capabilities.

3rd Gen Intel Xeon Scalable Processors

intel.com/xeonscalable



Intel may make changes to specifications and product descriptions at any time, without notice. Please visit intel.com/xeon or contact your Intel representative to obtain the latest product specifications.

Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. All processors support Intel Virtualization Technology (Intel VT-x). No product or component can be absolutely secure.

Intel, the Intel logo, Xeon, and Optane are trademarks of Intel Corporation or its subsidiaries. Prepared on 19 May 2021. © Copyright 2021. Intel Corporation.

OPTIMIZED FOR HIGHEST PER-CORE SCALABLE PERFORMANCE

SKU	CORES	BASE (GHz)	SINGLE CORE TURBO (GHz)	ALL CORE TURBO (GHz)	CACHE (MB)	TDP (Watts)	Support for Intel Optane Persistent Memory 200 Series	Intel SGX Enclave Capacity (Per Processor)	Recommended Customer Pricing (RCP) in \$ US Dollars
8380	40	2.3	3.4	3.0	60	270	Yes	512 GB	\$8099
8368	38	2.4	3.4	3.2	57	270	Yes	512 GB	\$6302
8362	32	2.8	3.6	3.5	48	265	Yes	64 GB	\$5448
8360Y	36	2.4	3.5	3.1	54	250	Yes	64 GB	\$4702
8358	32	2.6	3.4	3.3	48	250	Yes	64 GB	\$3950
6348	28	2.6	3.5	3.4	42	235	Yes	64 GB	\$3072
6342	24	2.8	3.5	3.3	36	230	Yes	64 GB	\$2529
6354	18	3.0	3.6	3.6	39	205	Yes	64 GB	\$2445
6346	16	3.1	3.6	3.6	36	205	Yes	64 GB	\$2300
6334	8	3.6	3.7	3.6	18	165	Yes	64 GB	\$2214
6326	16	2.9	3.5	3.3	24	185	Yes	64 GB	\$1300
5317	12	3.0	3.6	3.4	18	150	Yes	64 GB	\$950
5315Y	8	3.2	3.6	3.5	12	140	Yes	64 GB	\$895

SCALABLE PERFORMANCE

8352Y	32	2.2	3.4	2.8	48	205	Yes	64 GB	\$3450
6338	32	2.0	3.2	2.6	48	205	Yes	64 GB	\$2612
6336Y	24	2.4	3.6	3.0	36	185	Yes	64 GB	\$1977
6330	28	2.0	3.1	2.6	42	205	Yes	64 GB	\$1894
5320	26	2.2	3.4	2.8	39	185	Yes	64 GB	\$1555
5318Y	24	2.1	3.4	2.6	36	165	Yes	64 GB	\$1273
4316	20	2.3	3.4	2.8	30	150		8 GB	\$1002
4314	16	2.4	3.4	2.9	24	135	Yes	8 GB	\$694
4310	12	2.1	3.3	2.7	18	120		8 GB	\$501
4309Y	8	2.8	3.6	3.4	12	105		8 GB	\$501

Y Supports Intel Speed Select Technology – Performance Profile 2.0 (Intel SST-PP)

All 8300, 6300, 5300 and 4300 processors, Non-H/HL SKUs, are supported on a unique 1 or 2 socket platform. Please contact your hardware provider for a list of system availability supporting your specific SKU configuration.

All 8300, 6300, 5300 and 4300 processors, Non-H/HL SKUs, are configured to support up to 6 TB of system memory, per processor. Intel has validated for up to 4 TB of Intel Optane persistent memory 200 series, per processor. Intel has validated for up to 256 GB capacity DRAM memory modules, as of March 2021.

Unless noted, all 8300, 6300 and 5300 processors, Non-H/HL SKUs, include support for Intel Speed Select technology (Intel SST) featuring Intel SST Base Frequency (SST-BF), Intel SST Core Power (SST-CP) and Intel SST Turbo Frequency (SST-TF) capabilities.

M, P, Q, V SKUs and 8362 do not include support Intel Speed Select Technology Base Frequency (SST-BF).

Intel Software Guard Extensions (Intel SGX) is not supported when using Intel Optane persistent memory

SKUs SUPPORTING MAXIMUM INTEL SGX ENCLAVE CAPACITY

SKU	CORES	BASE (GHz)	SINGLE CORE TURBO (GHz)	ALL CORE TURBO (GHz)	CACHE (MB)	TDP (Watts)	Support for Intel Optane Persistent Memory 200 Series	Intel SGX Enclave Capacity (Per Processor)	Recommended Customer Pricing (RCP) in \$ US Dollars
8380	40	2.3	3.4	3.0	60	270	Yes	512 GB	\$8099
8368Q	38	2.6	3.7	3.3	57	270	Yes	512 GB	\$6743
8368	38	2.4	3.4	3.2	57	270	Yes	512 GB	\$6302
8352S	32	2.2	3.4	2.8	48	205	Yes	512 GB	\$4046
5318S	24	2.1	3.4	2.6	36	165	Yes	512 GB	\$1667

8352S and 5318S support Intel Speed Select Technology – Performance Profile 2.0 (Intel SST-PP)

CLOUD OPTIMIZED FOR VM UTILIZATION

8358P	32	2.6	3.4	3.2	48	240	Yes	8 GB	\$3950
8352V	36	2.1	3.5	2.5	54	195	Yes	8 GB	\$3450

P IaaS Cloud Specialized Processor, V SaaS Cloud Specialized Processor
8352V supports Intel Speed Select Technology – Performance Profile 2.0 (Intel SST-PP)

LIQUID COOLED

8368Q	38	2.6	3.7	3.3	57	270	Yes	512 GB	\$6743
-------	----	-----	-----	-----	----	-----	-----	--------	--------

8368Q supports up to 512 GB Intel Software Guard Extensions (Intel SGX) enclave capacity

NETWORKING/NFV OPTIMIZED

835IN	36	2.4	3.5	3.1	54	225	Yes	64 GB	\$3027
6338N	32	2.2	3.5	2.7	48	185	Yes	64 GB	\$2795
6330N	28	2.2	3.4	2.6	42	165	Yes	64 GB	\$2029
5318N	24	2.1	3.4	2.7	36	150	Yes	64 GB	\$1375

835IN is supported in a one-socket configuration only
5318N supports Intel Speed Select Technology – Performance Profile 2.0 (Intel SST-PP)

MEDIA PROCESSING OPTIMIZED

8352M	32	2.3	3.5	2.8	48	185	Yes	64 GB	\$3864
-------	----	-----	-----	-----	----	-----	-----	-------	--------

Optimized for processing AI and media workloads and services.

LONG-LIFE USE AND NEBS-THERMAL FRIENDLY

6338T	24	2.1	3.4	2.7	36	165	Yes	64 GB	\$2742
5320T	20	2.3	3.5	2.9	30	150	Yes	64 GB	\$1727
4310T	10	2.3	3.4	2.9	15	105		8 GB	\$555

Support for up to 10-year reliability, higher Tcase.

SINGLE-SOCKET OPTIMIZED

835IN	36	2.4	3.5	3.1	54	225	Yes	64 GB	\$3027
6314U	32	2.3	3.4	2.9	48	205	Yes	64 GB	\$2600
6312U	24	2.4	3.6	3.1	36	185	Yes	64 GB	\$1450

Supported in one-socket configurations only