



Intel® Xeon® Platinum 8168 Processor

33M Cache, 2.70 GHz

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Essentials

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Product Collection	Intel® Xeon® Scalable Processors
Code Name	Products formerly Skylake
Vertical Segment	Server
Processor Number	8168
Status	Launched
Launch Date ?	Q3'17
Lithography ?	14 nm
Recommended Customer Price ?	\$5890.00

Performance

# of Cores ?	24
# of Threads ?	48
Processor Base Frequency ?	2.70 GHz
Max Turbo Frequency ?	3.70 GHz
Cache ?	33 MB L3
# of UPI Links ?	3
TDP ?	205 W

Supplemental Information

Embedded Options Available ?	No
Datasheet	View now
Product Brief	View now

Memory Specifications

Max Memory Size (dependent on memory type) ?	768 GB
Memory Types ?	DDR4-2666
Maximum Memory Speed	2666 MHz
Max # of Memory Channels ?	6
ECC Memory Supported ‡ ?	Yes

Expansion Options

Scalability	S8S
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PCI Express Revision 	3.0
Max # of PCI Express Lanes 	48

Package Specifications

Sockets Supported 	FCLGA3647
T _{CASE} 	85°C
Package Size	76.0mm x 56.5mm
Low Halogen Options Available	See MDDS

Advanced Technologies

Intel® Optane™ Memory Supported [‡] 	No
Intel® Speed Shift Technology 	Yes
Intel® Turbo Boost Max Technology 3.0 [‡] 	No
Intel® Turbo Boost Technology [‡] 	2.0
Intel® vPro™ Technology [‡] 	Yes
Intel® Hyper-Threading Technology [‡] 	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
Intel® TSX-NI 	Yes
Intel® 64 [‡] 	Yes
Instruction Set Extensions 	Intel® SSE4.2, Intel® AVX, Intel® AVX2, Intel® AVX-512
# of AVX-512 FMA Units 	2
Enhanced Intel SpeedStep® Technology 	Yes
Intel® Volume Management Device (VMD) 	Yes

Security & Reliability

Intel® AES New Instructions 	Yes
Intel® Trusted Execution Technology [‡] 	Yes
Execute Disable Bit [‡] 	Yes
Intel® Run Sure Technology 	Yes
Mode-based Execute Control (MBE) 	Yes

More support options for Intel® Xeon® Platinum 8168 Processor (33M Cache, 2.70 GHz)



Product Support



Downloads and Software



Support Community



Warranty and Replacement

Ordering and spec information

Intel® Xeon® Platinum 8168 Processor (33M Cache, 2.70 GHz) FC-LGA14B, Tray

Spec Code	SR37J
Ordering Code	CD8067303327701
Step	H0
RCP	\$5890.00

Trade compliance information

ECCN	5A992C
CCATS	G077159
US HTS	8542310001

PCN/MDDS Information

SR37J

955036	PCN MDDS
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