

Intel Xeon 8180 processor 2.5 GHz 38.5 MB L3 Box

Brand : Intel

Product family: Xeon

Product code: BX806738180

Product name : 8180



Intel® Xeon® Platinum 8180 Processor
(38.5M Cache, 2.50 GHz)

Intel Xeon 8180. Processor family: Intel® Xeon® Platinum, Processor socket: LGA 3647 (Socket P), Processor lithography: 14 nm. Memory channels: Hexa-channel, Maximum internal memory supported by processor: 768 GB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: SSE4.2, AVX, AVX 2.0, AVX-512, Scalability: S8S. Package type: Retail box. Processor package size: 76mm x 56.5mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Speed Shift Technology	✓
Processor generation	1st Generation Intel® Xeon® Scalable	Intel® Transactional Synchronization Extensions	✓
Processor model *	8180	Intel VT-x with Extended Page Tables (EPT)	✓
Processor base frequency *	2.5 GHz	Intel TSX-NI	✓
Processor family *	Intel® Xeon® Platinum	Intel 64	✓
Processor cores *	28	Intel Virtualization Technology (VT-x)	✓
Processor socket *	LGA 3647 (Socket P)	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Component for	Server/workstation	Intel TSX-NI version	1.00
Processor lithography *	14 nm	Conflict-Free processor	✓
Processor threads	56	Intel Turbo Boost Max Technology 3.0	✗
Processor operating modes *	64-bit	Intel® Optane™ Memory Ready	✗
Processor boost frequency	3.8 GHz	AVX-512 Fused Multiply-Add (FMA) units	2
Processor cache	38.5 MB	Intel® Volume Management Device (VMD)	✓
Processor cache type	L3	Intel® Run Sure Technology	✓
Thermal Design Power (TDP)	205 W	Mode-based Execute Control (MBE)	✓
Box *	✓	Intel® vPro™ Platform Eligibility	✓
Cooler included *	✓		
Number of QPI links	3		
Processor codename	Skylake		
Processor ARK ID	120496		
Memory		Operational conditions	
Maximum internal memory supported by processor	768 GB	Tcase	84 °C
Memory types supported by processor	DDR4-SDRAM	Technical details	
Memory clock speeds supported by processor	2666 MHz	Launch date	Q3'17
Memory channels *	Hexa-channel	Processor cache	39424 KB
ECC	✓	Product type	Processor
Graphics		Status	Launched
On-board graphics card *	✗	Maximum memory	768 GB
Features		Processor brand name	Intel Xeon Platinum Intel Xeon Platinum Processor
Execute Disable Bit	✓	Supported memory types	DDR4-SDRAM
Market segment	Server	Last change	63903513
Maximum number of PCI Express lanes	48	Product family	Intel Xeon Processors
PCI Express slots version	3.0	Intel® Speed Shift Technology version	1.00
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512	Intel® Run Sure Technology version	1.00
Scalability	S8S	Intel® Volume Management Device (VMD) version	1.00

Features		Technical details	
Embedded options available	✘	Memory speed (max)	2666 MHz
PCI Express CEM revision	3.0	Mode-based Execute Control (MBE) version	1.00
Export Control Classification Number (ECCN)	5A992C	Number of UPI links	3
Commodity Classification Automated Tracking System (CCATS)	G077159	Logistics data	
Processor special features		Harmonized System (HS) code	85423119
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Packaging data	
Intel® Turbo Boost Technology	2.0	Package type	Retail box
Intel® AES New Instructions (Intel® AES-NI)	✓	Weight & dimensions	
Enhanced Intel SpeedStep Technology	✓	Processor package size	76mm x 56.5mm
Intel Trusted Execution Technology	✓	Other features	
		Maximum internal memory	768 GB
		Maximum internal memory	786432 MB



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