

## Intel Xeon 8180M processor 2.5 GHz 38.5 MB L3

Brand : Intel

Product family: Xeon

Product code:  
CD8067303192101

Product name : 8180M



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

Intel Xeon 8180M. 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: 1.5 TB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: SSE4.2, AVX, AVX 2.0, AVX-512, Scalability: S8S. Processor package size: 76mm x 56.5mm. Maximum internal memory: 1.5 TB, Maximum internal memory: 1536000 MB

Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Speed Shift Technology	✓
Processor model *	8180M	Intel® Transactional Synchronization Extensions	✓
Processor base frequency *	2.5 GHz	Intel VT-x with Extended Page Tables (EPT)	✓
Processor family *	Intel® Xeon® Platinum	Intel TSX-NI	✓
Processor cores *	28	Intel 64	✓
Processor socket *	LGA 3647 (Socket P)	Intel Virtualization Technology (VT-x)	✓
Component for	Server/workstation	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor lithography *	14 nm	Intel TSX-NI version	1.00
Processor threads	56	Conflict-Free processor	✓
Processor operating modes *	64-bit	Intel Turbo Boost Max Technology 3.0	✗
Processor boost frequency	3.8 GHz	Intel® Optane™ Memory Ready	✗
Processor cache	38.5 MB	AVX-512 Fused Multiply-Add (FMA) units	2
Processor cache type	L3	Intel® Volume Management Device (VMD)	✓
Thermal Design Power (TDP)	205 W	Intel® Run Sure Technology	✓
Box *	✗	Mode-based Execute Control (MBE)	✓
Cooler included *	✗	Intel® vPro™ Platform Eligibility	✓
Stepping	H0		
Bus type	UPI	Operational conditions	
Processor codename	Skylake	Tcase	84 °C
Processor code	SR37T	Technical details	
Processor ARK ID	120498	Launch date	Q3'17
Memory		Processor cache	39424 KB
Maximum internal memory supported by processor	1.5 TB	Product type	Processor
Memory types supported by processor	DDR4-SDRAM	Status	Launched
Memory clock speeds supported by processor	2666 MHz	Processor brand name	Intel Xeon Platinum Intel Xeon Platinum Processor
Memory channels *	Hexa-channel	Supported memory types	DDR4-SDRAM
ECC	✓	Last change	63903513
Graphics		Product family	Intel Xeon Processors
On-board graphics card *	✗	Intel® Speed Shift Technology version	1.00
Features		Intel® Run Sure Technology version	1.00
Execute Disable Bit	✓	Intel® Volume Management Device (VMD) version	1.00
Market segment	Server	Memory speed (max)	2666 MHz
Maximum number of PCI Express lanes	48	Mode-based Execute Control (MBE) version	1.00
PCI Express slots version	3.0	Number of UPI links	3
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512		
Scalability	S8S		
Embedded options available	✗		
PCI Express CEM revision	3.0		

Features		Technical details	
Export Control Classification Number (ECCN)	5A992C	Servicing status	Baseline Servicing
Commodity Classification Automated Tracking System (CCATS)	G077159	End of servicing updates date	Sunday, December 31, 2023
Processor special features		Logistics data	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Harmonized System (HS) code	85423119
Intel® Turbo Boost Technology	2.0	Weight & dimensions	
Intel® AES New Instructions (Intel® AES-NI)	✓	Processor package size	76mm x 56.5mm
Enhanced Intel SpeedStep Technology	✓	Other features	
Intel Trusted Execution Technology	✓	Maximum internal memory	1.5 TB
		Maximum internal memory	1536000 MB

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