

## Intel Xeon Platinum 8352S processor 2.2 GHz 48 MB

**Brand :** Intel

**Product family:** Xeon

**Product code:**  
CD8068904642802

**Product name :** Platinum  
8352S



Intel Xeon Platinum 8352S Processor (48MB Cache, up to 3.4 GHz)  
Intel Xeon Platinum 8352S. Processor family: Intel® Xeon® Platinum, Processor socket: LGA 4189, Processor lithography: 10 nm. Memory channels: Octa-channel, Maximum internal memory supported by processor: 6.14 TB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: SSE4.2, AVX, AVX 2.0, AVX-512, Scalability: 2S. Maximum Enclave Size Support for Intel® SGX: 512 GB. Processor package size: 77.5 x 56.5 mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor generation	3rd Generation Intel® Xeon® Scalable	Intel Trusted Execution Technology	✓
Processor model *	8352S	Intel® Speed Shift Technology	✓
Processor base frequency *	2.2 GHz	Intel® Transactional Synchronization Extensions	✓
Processor family *	Intel® Xeon® Platinum	Intel® Total Memory Encryption	✓
Processor cores *	32	Intel® Crypto Acceleration	✓
Processor socket *	LGA 4189	Intel® Platform Firmware Resilience Support	✓
Component for	Server/workstation	Maximum Enclave Size Support for Intel® SGX	512 GB
Processor lithography *	10 nm	Intel VT-x with Extended Page Tables (EPT)	✓
Processor threads	64	Intel Software Guard Extensions (Intel SGX)	✓
System bus rate	11.2 GT/s	Intel 64	✓
Processor operating modes *	64-bit	Intel Virtualization Technology (VT-x)	✓
Processor boost frequency	3.4 GHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
High priority cores	12	Intel® Optane™ Memory Ready	✓
High priority core frequency	2.4 GHz	AVX-512 Fused Multiply-Add (FMA) units	2
Low priority cores	20	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Low priority core frequency	2 GHz	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✓
Processor cache	48 MB	Intel® Resource Director Technology (Intel® RDT)	✓
Thermal Design Power (TDP)	205 W	Intel® Volume Management Device (VMD)	✓
Box *	✗	Intel® Run Sure Technology	✓
Cooler included *	✗	Mode-based Execute Control (MBE)	✓
Processor codename	Ice Lake	Intel® Optane™ DC Persistent Memory Supported	✓
Processor ARK ID	212307		
Memory		Operational conditions	
Maximum internal memory supported by processor	6.14 TB	Tcase	81 °C
Memory types supported by processor	DDR4-SDRAM	Technical details	
Memory clock speeds supported by processor	3200 MHz	Target market	Cloud Computing
Memory channels *	Octa-channel	Launch date	Q2'21
ECC	✓	Status	Launched
Graphics			
On-board graphics card *	✗		
Discrete graphics card *	✗		
On-board graphics card model *	Not available		
Discrete graphics card model *	Not available		

Features		Technical details	
Execute Disable Bit	✓	Supported memory types	DDR4-SDRAM
Market segment	Server	Memory speed (max)	3200 MHz
Maximum number of PCI Express lanes	64	Number of UPI links	3
PCI Express slots version	4.0	Servicing status	Baseline Servicing
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512	Logistics data	
Scalability	2S	Harmonized System (HS) code	85423119
Embedded options available	✗	Weight & dimensions	
Export Control Classification Number (ECCN)	5A992CN3	Processor package size	77.5 x 56.5 mm
Commodity Classification Automated Tracking System (CCATS)	G178966	Other features	
		Maximum internal memory	6 TB
Processor special features			
Intel® Hyper Threading Technology (Intel® HT Technology)	✓		
Intel® Turbo Boost Technology	2.0		



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