

Intel Xeon 8160F processor 2.1 GHz 33 MB L3

Brand : Intel

Product family: Xeon

Product code:
CD8067303593600

Product name : 8160F



Intel® Xeon® Platinum 8160F Processor
(33M Cache, 2.10 GHz)

Intel Xeon 8160F. 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: 2S. Processor package size: 88mm x 56.5mm. Maximum internal memory: 768 GB, Maximum internal memory: 786432 MB



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Speed Shift Technology	✓
Processor generation	1st Generation Intel® Xeon® Scalable	Intel® Transactional Synchronization Extensions	✓
Processor model *	8160F	Intel VT-x with Extended Page Tables (EPT)	✓
Processor base frequency *	2.1 GHz	Intel TSX-NI	✓
Processor family *	Intel® Xeon® Platinum	Intel 64	✓
Processor cores *	24	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	48	Intel Turbo Boost Max Technology 3.0	✗
Processor operating modes *	64-bit	Intel® Optane™ Memory Ready	✗
Processor boost frequency	3.7 GHz	AVX-512 Fused Multiply-Add (FMA) units	2
Processor cache	33 MB	Intel® Volume Management Device (VMD)	✓
Processor cache type	L3	Intel® Run Sure Technology	✓
Thermal Design Power (TDP)	160 W	Mode-based Execute Control (MBE)	✓
Box *	✗	Intel® vPro™ Platform Eligibility	✓
Cooler included *	✗	Operational conditions	
Stepping	H0	Tcase	87 °C
Bus type	UPI	Technical details	
Processor codename	Skylake	Launch date	Q3'17
Processor code	SR3KG	Processor cache	33792 KB
Processor ARK ID	123687	Product type	Processor
Memory		Status	Launched
Maximum internal memory supported by processor	768 GB	Maximum memory	768 GB
Memory types supported by processor	DDR4-SDRAM	Processor brand name	Intel Xeon Platinum Intel Xeon Platinum Processor
Memory clock speeds supported by processor	2666 MHz	Supported memory types	DDR4-SDRAM
Memory channels *	Hexa-channel	Last change	64954015
ECC	✓	Product family	Intel Xeon Processors
Graphics		Intel® Speed Shift Technology version	1.00
On-board graphics card *	✗	Integrated Intel® Omni-Path Architecture (Intel® OPA) version	1.00
Features		Intel® Run Sure Technology version	1.00
Execute Disable Bit	✓		
Market segment	Server		
Maximum number of PCI Express lanes	48		
PCI Express slots version	3.0		

Features		Technical details	
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512	Intel® Volume Management Device (VMD) version	1.00
Scalability	2S	Memory speed (max)	2666 MHz
Embedded options available	✘	Mode-based Execute Control (MBE) version	1.00
PCI Express CEM revision	3.0	Number of UPI links	2
Export Control Classification Number (ECCN)	5A992C	Integrated Intel® Omni-Path Architecture (Intel® OPA)	✓
Commodity Classification Automated Tracking System (CCATS)	G077159		
Processor special features		Logistics data	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Harmonized System (HS) code	8542310001
Intel® Turbo Boost Technology	2.0	Weight & dimensions	
Intel® AES New Instructions (Intel® AES-NI)	✓	Processor package size	88mm x 56.5mm
Enhanced Intel SpeedStep Technology	✓	Other features	
Intel Trusted Execution Technology	✓	Maximum internal memory	768 GB
		Maximum internal memory	786432 MB

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