

Intel Xeon 6138 processor 2 GHz 27.5 MB L3 Box

Brand : Intel

Product family: Xeon

Product code: BX806736138

Product name : 6138

Intel® Xeon® Gold 6138 Processor
(27.5M Cache, 2.00 GHz)

Intel Xeon 6138. Processor family: Intel® Xeon® Gold, 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: AVX-512, Scalability: S4S. 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 *	6138	Intel VT-x with Extended Page Tables (EPT)	✓
Processor base frequency *	2 GHz	Intel TSX-NI	✓
Processor family *	Intel® Xeon® Gold	Intel 64	✓
Processor cores *	20	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	40	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	27.5 MB	Intel® Volume Management Device (VMD)	✓
Processor cache type	L3	Intel® Run Sure Technology	✓
Thermal Design Power (TDP)	125 W	Mode-based Execute Control (MBE)	✓
Box *	✓	Intel® vPro™ Platform Eligibility	✓
Cooler included *	✓		
Stepping	H0		
Processor codename	Skylake		
Processor code	SR3B5		
Processor ARK ID	120476		
Memory		Operational conditions	
Maximum internal memory supported by processor	768 GB	Tcase	86 °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	28160 KB
ECC	✓	Product type	Processor
Graphics		Status	Launched
On-board graphics card *	✗	Maximum memory	768 GB
Features		Processor brand name	Intel Xeon Gold Intel Xeon Gold 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	AVX-512	Intel® Run Sure Technology version	1.00
Scalability	S4S	Intel® Volume Management Device (VMD) version	1.00
Embedded options available	✓	Memory speed (max)	2666 MHz
		Mode-based Execute Control (MBE) version	1.00

Features		Technical details	
PCI Express CEM revision	3.0	Number of UPI links	3
Export Control Classification Number (ECCN)	5A992C	Servicing status	ESU Notification Issued
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	Packaging data	
Intel® AES New Instructions (Intel® AES-NI)	✓	Package type	Retail box
Enhanced Intel SpeedStep Technology	✓	Weight & dimensions	
Intel Trusted Execution Technology	✓	Processor package size	76mm x 56.5mm
		Other features	
		Maximum internal memory	768 GB
		Maximum internal memory	786432 MB



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