

## Intel Xeon 8276M processor 2.2 GHz 38.5 MB

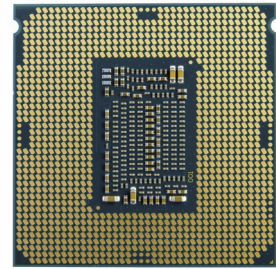
**Brand :** Intel

**Product family:** Xeon

**Product code:**  
CD8069504195401

**Product name :** 8276M

Intel Xeon Platinum 8276M Processor (39MB Cache, up to 4 GHz)  
Intel Xeon 8276M. 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: 2.05 TB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: AVX-512, Scalability: S8S. Processor package size: 76.0 x 56.5 mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor model *	8276M	Enhanced Intel SpeedStep Technology	✓
Processor base frequency *	2.2 GHz	Intel Trusted Execution Technology	✓
Processor family *	Intel® Xeon® Platinum	Intel® Speed Shift Technology	✓
Processor cores *	28	Intel VT-x with Extended Page Tables (EPT)	✓
Processor socket *	LGA 3647 (Socket P)	Intel TSX-NI	✓
Component for	Server/workstation	Intel 64	✓
Processor lithography *	14 nm	Intel Virtualization Technology (VT-x)	✓
Processor threads	56	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor operating modes *	64-bit	Intel Turbo Boost Max Technology 3.0	✗
Processor boost frequency	4 GHz	AVX-512 Fused Multiply-Add (FMA) units	2
Processor cache	38.5 MB	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Thermal Design Power (TDP)	165 W	Intel® Resource Director Technology (Intel® RDT)	✓
Box *	✗	Intel® Volume Management Device (VMD)	✓
Cooler included *	✗	Intel® Run Sure Technology	✓
Processor codename	Cascade Lake	Mode-based Execute Control (MBE)	✓
Processor ARK ID	192471	Intel® vPro™ Platform Eligibility	✓
<b>Memory</b>		Intel Speed Select Technology (SST)	✗
Maximum internal memory supported by processor	2.05 TB	Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✗
Memory types supported by processor	DDR4-SDRAM	Intel® Optane™ DC Persistent Memory technology	✓
Memory clock speeds supported by processor	2933 MHz		
Memory channels *	Hexa-channel		
ECC	✓		
<b>Graphics</b>			
On-board graphics card *	✗		
Discrete graphics card *	✗		

Graphics		Operational conditions	
On-board graphics card model *	Not available	Tcase	89 °C
Discrete graphics card model *	Not available	<b>Technical details</b>	
Features		Launch date	Q2'19
Execute Disable Bit	✓	Product type	Processor
Market segment	Server	Status	Launched
Maximum number of PCI Express lanes	48	Memory speed (max)	2933 MHz
PCI Express slots version	3.0	Number of UPI links	3
Supported instruction sets	AVX-512	Logistics data	
Scalability	S8S	Harmonized System (HS) code	8542310001
Embedded options available	✗	Weight & dimensions	
PCI Express CEM revision	3.0	Processor package size	76.0 x 56.5 mm
Processor special features			
Intel® Hyper Threading Technology (Intel® HT Technology)	✓		
Intel® Turbo Boost Technology	2.0		

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