



HP Intel Xeon W-2145 processor 3.7 GHz 11 MB

Brand : HP

Product code: 2PC04AV

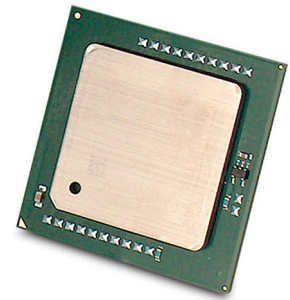
Product name : Intel Xeon W-2145

Intel Xeon W-2145, 11M Cache, 3.70 GHz, TDP 140W, FCLGA2066

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HP Intel Xeon W-2145. Processor family: Intel Xeon W, Processor socket: LGA 2066 (Socket R4), Processor lithography: 14 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 512 GB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: AVX, AVX 2.0, AVX-512, SSE4.2, Scalability: 1S



Processor		Features	
Processor model *	W-2145	Embedded options available	✗
Processor base frequency *	3.7 GHz	Processor special features	
Processor family *	Intel Xeon W	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cores *	8	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor socket *	LGA 2066 (Socket R4)	Intel® Turbo Boost Technology	2.0
Component for	Server/workstation	Intel Flex Memory Access	✗
Processor lithography *	14 nm	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor threads	16	Enhanced Intel SpeedStep Technology	✓
System bus rate	8 GT/s	Intel Trusted Execution Technology	✓
Processor operating modes *	64-bit	Intel® Memory Protection Extensions (Intel® MPX)	✓
Processor boost frequency	4.5 GHz	Intel® Speed Shift Technology	✓
Processor cache	11 MB	Intel VT-x with Extended Page Tables (EPT)	✓
Thermal Design Power (TDP)	140 W	Intel Demand Based Switching	✓
Cooler included *	✗	Intel® Secure Key	✓
Processor codename	Skylake	Intel® OS Guard	✓
Memory		Intel Software Guard Extensions (Intel SGX)	✓
Maximum internal memory supported by processor	512 GB	Intel 64	✓
Memory types supported by processor	DDR4-SDRAM	Intel Virtualization Technology (VT-x)	✓
Memory clock speeds supported by processor	1600,1866,2133,2400,2666 MHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory channels *	Quad-channel	Intel Turbo Boost Max Technology 3.0	✗
ECC	✓	Intel® Optane™ Memory Ready	✗
Memory bandwidth (max)	85.3 GB/s	AVX-512 Fused Multiply-Add (FMA) units	2
Graphics		Intel® Boot Guard	✓
On-board graphics card *	✗	Intel® Volume Management Device (VMD)	✓
Discrete graphics card *	✗	Intel® vPro™ Platform Eligibility	✓
On-board graphics card model *	Not available	Operational conditions	
Discrete graphics card model *	Not available	Tcase	70 °C
Features			
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Server		
Maximum number of PCI Express lanes	48		
PCI Express slots version	3.0		

Features	
Supported instruction sets	AVX, AVX 2.0, AVX-512, SSE4.2
Scalability	15
CPU configuration (max)	1

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