



HP Intel Xeon W-1290 processor 3.2 GHz 20 MB Smart Cache Tray

Brand : HP

Product code: 9FX12AV

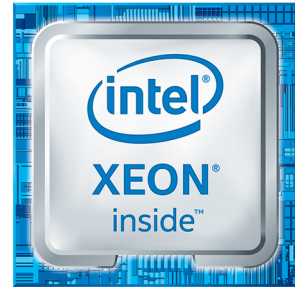
Product name : Intel Xeon W-1290

Intel Xeon W-1290 Processor (20MB Cache, up to 5.2 GHz)

HP Intel Xeon W-1290 processor 3.2 GHz 20 MB Smart Cache Tray:

Options, accessories, services and support for all your HP and Compaq products.

HP Intel Xeon W-1290. Processor family: Intel Xeon W, Processor socket: LGA 1200 (Socket H5), Processor lithography: 14 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 128 GB, Memory types supported by processor: DDR4-SDRAM. On-board graphics card model: Intel UHD Graphics P630, Maximum on-board graphics card memory: 64 GB, On-board graphics card base frequency: 350 MHz. Market segment: Workstation, PCI Express configurations: 1x16, 1x8+2x4, 2x8, Supported instruction sets: AVX 2.0, SSE4.1, SSE4.2. Intel® Turbo Boost Max Technology 3.0 frequency: 5.1 GHz, Intel® Turbo Boost Technology 2.0 frequency: 5 GHz, Intel® Thermal Velocity Boost Temperature: 70 °C



Processor		Features	
Processor manufacturer *	Intel	Idle States	✓
Processor model *	W-1290	Thermal Monitoring Technologies	✓
Processor base frequency *	3.2 GHz	Market segment	Workstation
Processor family *	Intel Xeon W	Maximum number of PCI Express lanes	16
Processor cores *	10	PCI Express slots version	3.0
Processor socket *	LGA 1200 (Socket H5)	PCI Express configurations	1x16, 1x8+2x4, 2x8
Component for	Server/workstation	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Processor lithography *	14 nm	Scalability	15
Processor threads	20	CPU configuration (max)	1
System bus rate	8 GT/s	Embedded options available	✗
Processor operating modes *	64-bit	Thermal solution specification	PCG 2015W
Processor boost frequency	5.2 GHz	PCI Express CEM revision	3.0
Processor cache	20 MB	Processor special features	
Processor cache type	Smart Cache	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Thermal Design Power (TDP)	80 W	Intel® Identity Protection Technology (Intel® IPT)	✓
Package type *	Tray	Intel® Turbo Boost Technology	2.0
Cooler included *	✗	Intel® Quick Sync Video Technology	✓
Memory bandwidth supported by processor (max)	45.8 GB/s	Intel® InTru™ 3D Technology	✓
Processor codename	Comet Lake	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Memory		Intel® AES New Instructions (Intel® AES-NI)	✓
Maximum internal memory supported by processor	128 GB	Enhanced Intel SpeedStep Technology	✓
Memory types supported by processor	DDR4-SDRAM	Intel Trusted Execution Technology	✓
Memory clock speeds supported by processor	2933 MHz	Intel® Thermal Velocity Boost	✓
Memory channels *	Dual-channel	Intel® Turbo Boost Max Technology 3.0 frequency	5.1 GHz
ECC	✓	Intel® Turbo Boost Technology 2.0 frequency	5 GHz
Graphics		Intel® Transactional Synchronization Extensions	✗
On-board graphics card *	✓	Intel® Thermal Velocity Boost Temperature	70 °C
Discrete graphics card *	✗	Intel® Thermal Velocity Boost Frequency	5.2 GHz
On-board graphics card model *	Intel UHD Graphics P630		
Maximum on-board graphics card memory	64 GB		
On-board graphics card base frequency	350 MHz		
On-board graphics card dynamic frequency (max)	1200 MHz		

Graphics		Processor special features	
Number of displays supported (on-board graphics)	3	Intel VT-x with Extended Page Tables (EPT)	✓
On-board graphics card 4K support	✓	Intel® Secure Key	✓
On-board graphics card DirectX version	12.0	Intel® OS Guard	✓
On-board graphics card OpenGL version	4.5	Intel Clear Video Technology	✓
On-board graphics card maximum resolution (DisplayPort)	4096 x 2304 pixels	Intel 64	✓
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	4096 x 2304 pixels	Intel Virtualization Technology (VT-x)	✓
On-board graphics card maximum resolution (HDMI)	4096 x 2160 pixels	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Intel Turbo Boost Max Technology 3.0	✓
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz	Intel® Optane™ Memory Ready	✓
On-board graphics card refresh rate at maximum resolution (HDMI)	30 Hz	Intel® Boot Guard	✓
Discrete graphics card model *	Not available	Intel® vPro™ Platform Eligibility	✓
Features		Operational conditions	
Execute Disable Bit	✓	Tjunction	100 °C

Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity. Automated scraping, data mining, or harvesting for the purpose of training machine learning models, neural networks, or artificial intelligence systems is strictly prohibited without a commercial license.