

Intel Xeon Gold 6458Q / 3.1 GHz processor - OEM



13-05-2024

SKU	PK8071305121501
Product Description:	Intel Xeon Gold 6458Q / 3.1 GHz processor - OEM
Product Type:	Processor
Processor Type:	Intel Xeon Gold 6458Q (4th Gen)
Number of Cores:	32-core / 64 threads
Cache:	60 MB
Compatible Processor Socket:	FCLGA4677 Socket
Processor Qty:	1

General

Product Type:

Dimensions & Weight (Shipping)

Processor	Shipping Width:	7.75 cm
	Shipping Depth:	5.65 cm

Miscellaneous

Package Type:	OEM/tray
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Processor

Type / Form Factor:	Intel Xeon Gold 6458Q (4th Gen)
Number of Cores:	32-core
Number of Threads:	64 threads
Cache:	60 MB
Cache Memory Details:	Smart Cache - 60 MB
Processor Qty:	1
Clock Speed:	3.1 GHz
Max Turbo Speed:	4 GHz
Compatible Processor Socket:	FCLGA4677 Socket
Manufacturing Process:	10 nm



Processor

Thermal Design Power: 350 W

Thermal Specification: 66 °C

PCI Express Revision: 5.0

PCI Express Lanes Qty: 80

Architecture Features:

Hyper-Threading Technology, Execute Disable Bit capability, Intel Virtualization Technology, Intel 64 Technology, Intel Trusted Execution Technology, streaming SIMD extensions 4.2, Intel Turbo Boost Technology 2.0, Intel AES New Instructions (AES-NI), Intel Virtualization Technology for Directed I/O (VT-d), Intel VT-x with Extended Page Tables (EPT), Intel Transactional Synchronization Extensions (TSX), Intel OS Guard, Intel Software Guard Extensions (SGX), Intel Speed Shift Technology, Intel Advanced Vector Extensions 512 (AVX-512), Intel Run Sure Technology, Intel Boot Guard, Intel Deep Learning Boost (DL Boost), Intel Resource Director Technology (RDT), Intel Speed Select technology - Performance Profile, Advanced Vector Extensions (AVX), Intel Speed Select technology - Base Frequency, Intel Optane DC Persistent Memory Supported, Intel Speed Select technology - Core Power, Intel Speed Select technology - Turbo Frequency, Intel Control-Flow Enforcement Technology, Intel Total Memory Encryption, Intel Platform Firmware Resilience Support, Intel Crypto Acceleration, Advanced Vector Extensions 2 (AVX2), Mode-based Execute Control (MBEC), Intel On Demand Feature Activation, Intel Advanced Matrix Extensions, 8 high priority cores, 24 low priority cores, Intel QuickAssist Software Acceleration, 128 GB maximum Enclave Page Cache (EPC) size for Intel SGX, 3.30 GHz high priority core, 2.80 GHz low priority core