Intel

Intel Xeon Platinum 8462Y+ Processor (PK8071305120901)

Datasheet

Product Overview

- The Intel Xeon Platinum 8462Y+ is a 4th Gen Intel Xeon Scalable processor for enterprise servers, virtualization, cloud infrastructure, and data-center workloads.
- It provides 32 cores and 64 threads, with a 2.80 GHz base frequency, up to 4.10 GHz Intel Turbo Boost frequency, 60 MB cache, and a 300 W TDP.
- The processor supports two-socket server platforms, eight DDR5 memory channels, and high-bandwidth PCI Express 5.0 expansion.
- Up to DDR5-4800 MT/s at 1DPC and DDR5-4400 MT/s at 2DPC support high-capacity server memory, with ECC support for platform reliability.
- Eighty PCIe 5.0 lanes, 2S scalability, and one default device each for QAT, DLB, DSA, and IAA support dense compute, virtualization, storage, and data-processing workloads.
- Intel Speed Select Performance Profile provides configurable operating points, while Intel SGX with a 128 GB default maximum EPC size supports protected deployments.

Product Highlights

- **32-Core Platinum Compute:** 32 cores and 64 threads provide strong parallel processing capacity for enterprise servers, virtualization, cloud platforms, and data-center workloads.
- **High-Frequency Server Processing:** A 2.80 GHz base frequency and up to 4.10 GHz Intel Turbo Boost frequency support responsive performance across compute-intensive and latency-sensitive workloads.
- **DDR5 Memory Flexibility:** Eight memory channels support up to DDR5-4800 MT/s at 1DPC and DDR5-4400 MT/s at 2DPC, with ECC support for server-class systems.
- **Two-Socket Expansion:** 2S scalability and 80 PCIe 5.0 lanes support multi-processor platforms with high-speed networking, storage, accelerators, and other I/O devices.

Detailed Features



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Component	Specification
Processor	Intel Xeon Platinum 8462Y+, 32 cores / 64 threads
Ordering Information	PK8071305120901, FC-LGA16A Tray, Spec Code SRMGP
Frequency and Cache	2.80 GHz base, up to 4.10 GHz turbo, 60 MB cache
Memory	Up to DDR5-4800 MT/s 1DPC or DDR5-4400 MT/s 2DPC, 8 channels, ECC supported

Component	Specification
Power and Expansion	300 W TDP, 2S scalability, PCIe 5.0 with 80 lanes, 16 GT/s UPI, 3 UPI links

Platinum Server Performance

The 8462Y+ combines 32 cores and 64 threads with a 2.80 GHz base frequency and up to 4.10 GHz Intel Turbo Boost frequency. This profile suits enterprise servers, virtualization, cloud services, analytics, and general-purpose data-center workloads.

Two-Socket Platform Design

Intel specifies 2S scalability, 16 GT/s UPI, and three UPI links. This enables the processor to participate in dual-socket platforms that require higher aggregate compute capacity and memory bandwidth.

PCIe 5.0 Expansion Capacity

Eighty PCIe 5.0 lanes provide high-speed connectivity for Ethernet adapters, storage controllers, accelerators, and other I/O devices. The lane budget supports high-throughput expansion across a server platform.

DDR5 Memory Bandwidth

Eight memory channels support up to DDR5-4800 MT/s with one DIMM per channel and up to DDR5-4400 MT/s with two DIMMs per channel. ECC support helps maintain data integrity in server environments.

Intel AMX Acceleration

Intel Advanced Matrix Extensions are supported alongside Intel DL Boost and AVX-512. These capabilities can accelerate selected AI, inference, analytics, and vectorized workloads when enabled by the software stack.

Integrated Accelerator Portfolio

Intel documents one default device each for QAT, DLB, DSA, and IAA. These engines can offload supported security, load-balancing, data-movement, and in-memory analytics operations from general-purpose cores.

Speed Select Performance Profiles

Intel Speed Select Technology supports core power, turbo frequency, base frequency, and performance-profile controls. The 8462Y+ lists 32 active cores at 2.8 GHz and 300 W, 32 active cores at 2.6 GHz and 270 W, or 24 active cores at 3.0 GHz and 270 W.

Protected Server Execution

Intel SGX with a 128 GB default maximum EPC size, Total Memory Encryption, AES instructions, Boot Guard, and Control-Flow Enforcement Technology help protect data and workloads across the server lifecycle.

Technical Specifications

Product Specifications

Feature	Value
User SKU	INTL-Platinum-8462Y+
Intel ordering code	PK8071305120901
Intel Spec Code	SRMGP
Processor model	Intel Xeon Platinum 8462Y+ Processor
Product collection	4th Gen Intel Xeon Scalable Processors
Code name	Products formerly Sapphire Rapids
Vertical segment	Server
Processor number	8462Y+
Lithography	Intel 7
Marketing status	Launched
Launch date	Q1 2023
Use conditions	Server / Enterprise
Total cores	32
Total threads	64

Feature	Value
Processor base frequency	2.80 GHz
Max turbo frequency	4.10 GHz
Cache	60 MB
Intel UPI speed	16 GT/s
Max UPI links	3
TDP	300 W
Scalability	2S
Sockets supported	FCLGA4677
Package carrier	E1B
Package size	77.5 mm x 56.5 mm
DTS max	99 °C
TCASE	81 °C
Max memory size	Up to 4 TB, depending on memory type and platform configuration
Memory types	Up to DDR5-4800 MT/s 1DPC; up to DDR5-4400 MT/s 2DPC
Max memory channels	8
ECC memory supported	Yes
PCI Express revision	5.0
Max PCI Express lanes	80
Intel On Demand Activation Model	No
Intel QuickAssist Technology	1 default device
Intel Dynamic Load Balancer	1 default device
Intel Data Streaming Accelerator	1 default device
Intel In-memory Analytics Accelerator	1 default device
Intel Advanced Matrix Extensions	Yes
Intel Speed Select Technology - Core Power	Yes
Intel Speed Select Technology - Turbo Frequency	Yes
Intel Speed Select Technology - Base Frequency	Yes
Intel Speed Select Technology - Performance Profile	Yes
Intel DL Boost	Yes

Feature	Value
High Priority Cores	12
High Priority Core Frequency	3.00 GHz
Low Priority Cores	20
Low Priority Core Frequency	2.60 GHz
Intel Resource Director Technology	Yes
Intel Speed Shift Technology	Yes
Intel Turbo Boost Technology	2.0
Intel Hyper-Threading Technology	Yes
Intel Transactional Synchronization Extensions	Yes
Intel 64	Yes
Instruction set extensions	Intel AMX, Intel SSE4.2, Intel AVX, Intel AVX2, Intel AVX-512
AVX-512 FMA units	2
Intel Crypto Acceleration	Yes
Intel QuickAssist Software Acceleration	Yes
Intel Platform Firmware Resilience	Yes
Intel Control-Flow Enforcement Technology	Yes
Intel Total Memory Encryption	Yes
Intel AES New Instructions	Yes
Intel SGX	Yes with Intel SPS
Default maximum SGX EPC size	128 GB
Intel OS Guard	Yes
Intel Trusted Execution Technology	Yes
Execute Disable Bit	Yes
Intel Boot Guard	Yes
Intel Run Sure Technology	Yes
Mode-based Execute Control	Yes
Intel Virtualization Technology	VT-x, VT-d, and VT-x with EPT
Shipping media	Tray
Stepping	S3

Product Comparison

Feature	Intel Xeon Platinum 8462Y+ / PK8071305120901	Intel Xeon Platinum 8460Y+	Intel Xeon Platinum 8461V
Processor family	4th Gen Intel Xeon Scalable	4th Gen Intel Xeon Scalable	4th Gen Intel Xeon Scalable
Product positioning	32-core, high-frequency, two-socket Platinum processor	40-core Speed Select Platinum server processor	48-core single-socket workload-optimized Platinum processor
Total cores	32	40	48
Total threads	64	80	96
Processor base frequency	2.80 GHz	2.00 GHz	2.20 GHz
Max turbo frequency	4.10 GHz	3.70 GHz	3.70 GHz
Cache	60 MB	105 MB	97.5 MB
TDP	300 W	300 W	300 W
Max memory size	Up to 4 TB, depending on memory type	Up to 4 TB, depending on memory type	Up to 4 TB, depending on memory type
Scalability	2S	2S	1S Only
UPI	16 GT/s, 3 links	16 GT/s, 3 links	0 GT/s, 0 links
Memory channels	8	8	8
PCI Express lanes	80	80	80
Intel AMX	Yes	Yes	Yes
Best-fit role	High-frequency dual-socket enterprise and cloud compute	Configurable enterprise and data-center compute	Dense single-socket virtualization and cloud compute

Accessories

Category	Accessories
Included Accessories	- Intel Xeon Platinum 8462Y+ processor (tray shipping media)
Optional Accessories	-

Support & Warranty

- 24/7 Online Service
- 3-Year Premium Warranty
- Professional Technical Support
- 100% Low Price Guarantee
- 100% Quality Assurance
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[2] Intel. (n.d.). Intel Xeon Platinum 8462Y+ Processor Ordering and Spec Information. Accessed: 2026-09-28. https://www.intel.com/content/www/us/en/products/sku/232383/intel-xeon-platinum-8462y-processor-60m-cache-2-80-ghz/ordering.html