

## Intel Xeon Gold 5433N processor 2.3 GHz 37.5 MB

Brand : Intel

Product family: Xeon

Product code:  
PK8071305321800

Product name : Gold 5433N

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Intel Xeon Gold 5433N. Processor family: Intel® Xeon®, Processor manufacturer: Intel, Processor model: 5433N. Memory channels: Octa-channel. Maximum internal memory supported by processor: 4 TB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: AMX, SSE4.2, AVX, AVX 2.0, AVX-512, Scalability: 1S. Maximum Enclave Size Support for Intel® SGX: 128 GB, Intel® QuickAssist Technology (QAT): 0 default devices, Intel® Dynamic Load Balancer (DLB): 0 default devices. Processor package size: 77.5 x 56.5 mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Platform Firmware Resilience Support	✓
Processor generation	Intel Xeon Scalable 4th Gen	Maximum Enclave Size Support for Intel® SGX	128 GB
Processor model *	5433N	Intel VT-x with Extended Page Tables (EPT)	✓
Processor base frequency *	2.3 GHz	Intel® OS Guard	✓
Processor family *	Intel® Xeon®	Intel Software Guard Extensions (Intel SGX)	✓
Processor cores *	20	Intel 64	✓
Processor threads	40	Intel Virtualization Technology (VT-x)	✓
Processor operating modes *	64-bit	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor boost frequency	4.1 GHz	AVX-512 Fused Multiply-Add (FMA) units	2
Processor cache	37.5 MB	Intel® Boot Guard	✓
Thermal Design Power (TDP)	160 W	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Box *	✗	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✓
Stepping	U1	Intel® Resource Director Technology (Intel® RDT)	✓
Processor codename	Sapphire Rapids	Intel® Run Sure Technology	✓
Processor ARK ID	234915	Mode-based Execute Control (MBE)	✓
<b>Memory</b>		Intel® Optane™ DC Persistent Memory Supported	✗
Maximum internal memory supported by processor	4 TB	Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✗
Memory types supported by processor	DDR4-SDRAM	Intel® QuickAssist Software Acceleration	✓
Memory channels *	Octa-channel	Intel® On Demand Feature Activation	✓
ECC	✓	Intel® QuickAssist Technology (QAT)	0 default devices
<b>Graphics</b>		Intel® Dynamic Load Balancer (DLB)	0 default devices
On-board graphics card *	✗	Intel® Data Streaming Accelerator (DSA)	1 default devices
Discrete graphics card *	✗	Intel® In-memory Analytics Accelerator (IAA)	0 default devices
On-board graphics card model *	Not available	Intel® Advanced Matrix Extensions (AMX)	✓
Discrete graphics card model *	Not available		
<b>Features</b>			
Execute Disable Bit	✓		
Market segment	Server		
Maximum number of PCI Express lanes	48		
PCI Express slots version	4.0		
Supported instruction sets	AMX, SSE4.2, AVX, AVX 2.0, AVX-512		
Scalability	1S		
Embedded options available	✓		
Export Control Classification Number (ECCN)	5A992C		

Features		Operational conditions	
Commodity Classification		Tcase	83 °C
Automated Tracking System (CCATS)	740.17B1	DTS Max	99 °C
Processor special features		Technical details	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Launch date	Q1'23
Intel® Turbo Boost Technology	2.0	Status	Launched
Intel® AES New Instructions (Intel® AES-NI)	✓	Supported memory types	DDR4-SDRAM
Intel Trusted Execution Technology	✓	Memory speed (max)	4000 MHz
Intel® Speed Shift Technology	✓	Package carrier	E1B
Intel® Transactional Synchronization Extensions	✓	Logistics data	
Intel® Total Memory Encryption	✓	Harmonized System (HS) code	8542310001
Intel® Control-flow Enforcement Technology (CET)	✓	Weight & dimensions	
Intel® Crypto Acceleration	✓	Processor package size	77.5 x 56.5 mm
		Other features	
		Maximum internal memory	4 TB

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