

## Intel Xeon 7210 processor 1.3 GHz 32 MB L2

**Brand :** Intel

**Product family:** Xeon

**Product code:**  
HJ8066702859300

**Product name :** 7210

Intel® Xeon Phi™ Processor 7210

(16GB, 1.30 GHz, 64 core)

Intel Xeon 7210. Processor family: Intel® Xeon Phi™, Processor socket: LGA 3647 (Socket P), Processor lithography: 14 nm. Memory channels: Hexa-channel, Maximum internal memory supported by processor: 384 GB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: AVX-512, Export Control Classification Number (ECCN): 5A002U.

Compatibility: Intel Server Board S7200AP Intel Server Board S7200APL Intel Compute Module HNS7200AP Intel..., Maximum internal memory: 384 GB, Maximum internal memory: 393216 MB



Processor		Features	
Processor manufacturer *	Intel	Export Control Classification Number (ECCN)	5A002U
Processor model *	7210	Commodity Classification Automated Tracking System (CCATS)	G065916
Processor base frequency *	1.3 GHz	<b>Processor special features</b>	
Processor family *	Intel® Xeon Phi™	Intel® Anti-Theft Technology (Intel® AT)	✗
Processor cores *	64	Intel® Turbo Boost Technology	2.0
Processor socket *	LGA 3647 (Socket P)	Intel® AES New Instructions (Intel® AES-NI)	✓
Component for	Server/workstation	Intel Trusted Execution Technology	✗
Processor lithography *	14 nm	Intel® Memory Protection Extensions (Intel® MPX)	✗
Processor series	Intel Xeon Phi Processor 7200 Series	Intel Enhanced Halt State	✓
Processor threads	64	Intel VT-x with Extended Page Tables (EPT)	✗
Processor operating modes *	64-bit	Intel Software Guard Extensions (Intel SGX)	✗
Processor boost frequency	1.5 GHz	Intel 64	✓
Processor cache	32 MB	Intel Secure Key Technology version	0.00
Processor cache type	L2	Intel Virtualization Technology (VT-x)	✗
Thermal Design Power (TDP)	215 W	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Box *	✗	Conflict-Free processor	✓
Cooler included *	✗	Intel® Boot Guard	✗
VID Voltage Range	0.55 - 1.125 V	<b>Technical details</b>	
Stepping	B0	Launch date	Q2'16
Memory bandwidth supported by processor (max)	102 GB/s	Processor cache	32768 KB
Processor codename	Knights landing	Product type	Processor
Processor code	SR2ME	Status	Discontinued
Processor ARK ID	94033	Maximum memory	384 GB
<b>Memory</b>		Supported memory types	DDR4-SDRAM
Maximum internal memory supported by processor	384 GB	Last change	63903513
Memory types supported by processor	DDR4-SDRAM	Product family	Intel Xeon Phi Product Family x200
Memory clock speeds supported by processor	2133 MHz	<b>Logistics data</b>	
Memory channels *	Hexa-channel	Harmonized System (HS) code	8542310001
ECC	✓		
<b>Features</b>			
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Server		
Maximum number of PCI Express lanes	36		

Features		Other features	
PCI Express slots version	3.0		
Supported instruction sets	AVX-512	Compatibility	Intel Server Board S7200AP Intel Server Board S7200APL Intel Compute Module HNS7200AP Intel Compute Module HNS7200APL
Embedded options available	✘		
PCI Express CEM revision	3.0	Maximum internal memory	384 GB
		Maximum internal memory	393216 MB



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