![Lenovo]

Lenovo 4XG7A14811 processor 2.2 GHz 14 MB Smart Cache

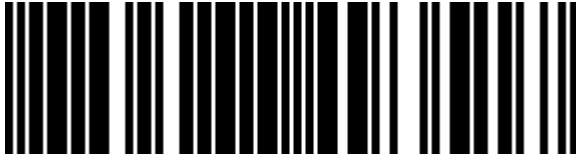**Brand :** Lenovo

Product name : 4XG7A14811

Product code: 4XG7A14811

Intel Xeon Silver 4210 Processor Option Kit for Lenovo ThinkSystem ST550
Lenovo 4XG7A14811. Processor family: Intel Xeon Silver, Processor socket: LGA 3647 (Socket P),
Processor lithography: 14 nm. Memory channels: Hexa-channel, Maximum internal memory supported
by processor: 1 TB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server,
Supported instruction sets: AVX-512, Scalability: 2S. Processor package size: 76 x 56.5 mm.
Compatibility: ThinkSystem ST550

Processor

Processor manufacturer *	Intel
Processor generation	2nd Generation Intel® Xeon® Scalable
Processor model *	4210
Processor base frequency *	2.2 GHz
Processor family *	Intel Xeon Silver
Processor cores *	10
Processor socket *	LGA 3647 (Socket P)
Component for	Server/workstation
Processor lithography *	14 nm
Processor series	Intel Xeon Silver 4000 Series
Processor threads	20
Processor operating modes *	64-bit
Processor boost frequency	3.2 GHz
Processor cache	14 MB
Processor cache type	Smart Cache
Thermal Design Power (TDP)	85 W
Bus type	UPI
Processor codename	Cascade Lake

Memory

Maximum internal memory supported by processor	1 TB
Memory types supported by processor	DDR4-SDRAM
Memory clock speeds supported by processor	2400 MHz
Memory channels *	Hexa-channel
ECC	✔

Graphics

On-board graphics card *	✘
Discrete graphics card *	✘
On-board graphics card model *	Not available
Discrete graphics card model *	Not available

Features

Execute Disable Bit	✔
Market segment	Server
Maximum number of PCI Express lanes	48

Features

PCI Express slots version	3.0
Supported instruction sets	AVX-512
Scalability	2S
Embedded options available	✔

Processor special features

Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Turbo Boost Technology	2.0
Intel® AES New Instructions (Intel® AES-NI)	✔
Enhanced Intel SpeedStep Technology	✔
Intel Trusted Execution Technology	✔
Intel® Speed Shift Technology	✔
Intel VT-x with Extended Page Tables (EPT)	✔
Intel TSX-NI	✔
Intel 64	✔
Intel Virtualization Technology (VT-x)	✔
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Turbo Boost Max Technology 3.0	✔
Intel® vPro™ Platform Eligibility	✔

Operational conditions

Tcase	78 °C

Logistics data

Harmonized System (HS) code	85423119

Weight & dimensions

Processor package size	76 x 56.5 mm

Other features

Compatibility	ThinkSystem ST550

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