

# ULTIMATE THROUGHPUT. COST-EFFECTIVE.



The modern data center needs flexible solutions that meet varying needs and improve TCO across infrastructure. But as it is now, many customers are buying two-socket motherboards with only one CPU installed. Others whose compute needs are satisfied with only one processor still purchase two-socket servers for the I/O and memory capabilities alone. For customers who want additional performance without investing in a two-socket motherboard, **2nd Generation Intel® Xeon® Scalable processors in a single-socket configuration** are a cost-effective way to support a range of enterprise workloads.



## WHEN TO RECOMMEND

Talk about an Intel Xeon Scalable processor single-socket configuration with customers whose storage and networking use cases require **high I/O capabilities and large memory bandwidth—but may not require more processing power**—to deliver optimal performance.

## WHY DEPLOY



### OPTIMIZED DATA CENTER PERFORMANCE

- 6 channels of DDR4 memory bandwidth
- Up to 48 lanes of PCI Express\* I/O bandwidth



### COST SAVINGS

- Single-socket solutions are typically less expensive than servers with a second CPU socket that often goes unused



### ENTERPRISE SECURITY & RELIABILITY

- Hardware-based security helps thwart exploits and maintain workload integrity
- Intel Run Sure Technology bolsters reliability and platform resiliency

## SAY THIS TO YOUR CUSTOMER

“Is your organization losing money by overpaying for unnecessary and underutilized server infrastructure?”

“Do your I/O-bound workloads require more bandwidth than an entry server processor can support, but you don’t need a multiprocessor system?”

“The Intel Xeon Scalable processor can deliver more than 3x the memory bandwidth compared to the Intel Xeon E processor.”

# EMPOWERING ENTERPRISE INNOVATION



## INTEL XEON SCALABLE PROCESSORS FOR SINGLE SOCKET

	CORES	BASE FREQUENCY <sup>1</sup>	MAX TURBO FREQUENCY <sup>2</sup>	CACHE <sup>3</sup>	ECC MEMORY SUPPORTED
INTEL XEON GOLD 6212U PROCESSOR	24	2.4GHz	3.9GHz	35.75MB	Yes
INTEL XEON GOLD 6210U PROCESSOR	20	2.5GHz	3.9GHz	27.5MB	Yes
INTEL XEON GOLD 6209U PROCESSOR	20	2.1GHz	3.9GHz	27.5MB	Yes

## NEXT-LEVEL SERVER INFRASTRUCTURE

The Intel® Xeon® Scalable processor in a single-socket configuration empowers businesses to take server infrastructure beyond entry level—affordably.

	INTEL® XEON® SCALABLE PROCESSOR SINGLE-SOCKET CONFIGURATION	INTEL® XEON® E PROCESSOR
CORES	Up to 28	Up to 8
DDR4 DIMM SLOTS	Up to 12 across 6 memory channels	Up to 6 across 2 memory channels
PCI EXPRESS* 3.0 LANES	Up to 48	Up to 16
SUPPORTS INTEL® OPTANE™ DC PERSISTENT MEMORY	Yes	No

Give businesses a cost-effective solution for ultimate throughput with servers powered by Intel Xeon Scalable processors in a single-socket configuration. Contact your Intel Authorized Distributor or visit [intel.com/xeon](https://intel.com/xeon)

Intel technologies' features and benefits depend on system configuration and may require enabled hardware, software, or service activation. Performance varies depending on system configuration. No product or component can be absolutely secure. Check with your system manufacturer or retailer or learn more at [intel.com](https://intel.com).

Cost reduction scenarios described are intended as examples of how a given Intel-based product, in the specified circumstances and configurations, may affect future costs and provide cost savings. Circumstances will vary. Intel does not guarantee any costs or cost reduction.

1. "Intel® Xeon® Gold 6212U Processor." <https://ark.intel.com/content/www/us/en/ark/products/192453/intel-xeon-gold-6212u-processor-35-75m-cache-2-40-ghz.html>.

2. "Intel® Xeon® Gold 6210U Processor." <https://ark.intel.com/content/www/us/en/ark/products/192452/intel-xeon-gold-6210u-processor-27-5m-cache-2-50-ghz.html>.

3. "Intel® Xeon® Gold 6209U Processor." <https://ark.intel.com/content/www/us/en/ark/products/193971/intel-xeon-gold-6209u-processor-27-5m-cache-2-10-ghz.html>.

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