

Specifications							
- Essentials							
Processor Number		E5-2695V4					
Status		Launched					
Launch Date		Q1'16					
Lithography		14 nm					
Recommended Customer Price		\$2424.00 - \$2428.00					
- Performance	- Performance						
# of Cores		18					
# of Threads		36					
Processor Base Frequency		2.10 GHz					
Max Turbo Frequency		3.30 GHz					
Cache		45 MB SmartCache					
Bus Speed		9.6 GT/s QPI					
# of QPI Links		2					
TDP		120 W					
VID Voltage Range		0					
- Supplemental Information							
Embedded Options Available	Q	Yes					
Conflict Free		Yes					
Datasheet		Link					
- Memory Specifications							
Max Memory Size (dependent on memory type)		1.54 TB					
Memory Types		DDR4 1600/1866/2133/2400					
Max # of Memory Channels		4					
Max Memory Bandwidth		76.8 GB/s					
Physical Address Extensions		46-bit					
ECC Memory Supported [‡]	Q	Yes					
- Graphics Specifications							
Processor Graphics [‡]		None					
- Expansion Options							

Scalability		25			
PCI Express Revision		3.0			
xpress Configurations ‡		x4, x8, x16			
Max # of PCI Express Lanes		40			
- Package Specifications					
Sockets Supported		FCLGA2011-3			
Max CPU Configuration		2			
T _{CASE}		84°C			
Package Size		45mm x 52.5mm			
Low Halogen Options Available		See MDDS			
- Advanced Technologies					
Intel® Turbo Boost Technology ‡		2.0			
Intel® vPro Technology ‡	Q	Yes			
Intel® Hyper-Threading Technology ‡	Q	Yes			
Intel® Virtualization Technology (VT-x) ‡		Yes			
Intel® Virtualization Technology for Directed I/O (VT-d) ‡	Q	Yes			
Intel® VT-x with Extended Page Tables (EPT) ‡	Q	Yes			
Intel® TSX-NI		Yes			
Intel® 64 [‡]	Q	Yes			
Instruction Set		64-bit			
Instruction Set Extensions		AVX 2.0			
Idle States		Yes			
Enhanced Intel SpeedStep® Technology	Q	Yes			
Intel® Demand Based Switching	Q	Yes			
Thermal Monitoring Technologies		Yes			
Intel® Flex Memory Access		No			
Intel® Identity Protection Technology ‡		No			
- Intel® Data Protection Technology					
Intel® AES New Instructions	Q	Yes			
Secure Key		Yes			
- Intel® Platform Protection Technology					
OS Guard		Yes			
Trusted Execution Technology [‡]	Q	Yes			
Execute Disable Bit [‡]		Yes			

Compare All +	Product Name	Status	Board Form Factor	Chassis Form Factor	Socket	Embedded Options Available	TD
	Intel® Server Board S2600CW2R	Launched	SSI EEB 12" x 13"	Rack or Pedestal	Socket R3	No	145 W
	Intel® Server Board S2600CW2SR	Launched	SSI EEB 12" x 13"	Rack or Pedestal	Socket R3	No	14 W
	Intel® Server Board S2600CWTR	Launched	SSI EEB 12" x 13"	Rack or Pedestal	Socket R3	No	14 W
	Intel® Server Board S2600CWTSR	Launched	SSI EEB 12" x 13"	Rack or Pedestal	Socket R3	No	14 W
	Intel® Server Board S2600KPR	Launched	Custom 6.4" x 17.7"	Rack	Socket R3	No	16 W
	Intel® Server Board S2600KPFR	Launched	Custom 6.4" x 17.7"	Rack	Socket R3	No	16 W
	Intel® Server Board S2600KPTR	Launched	Custom 6.4" x 17.7"	Rack	Socket R3	No	16 W
	Intel® Server Board S2600TPR	Launched	Custom 6.8" x 18.9"	Rack	Socket R3	No	16 W
	Intel® Server Board S2600TPFR	Launched	Custom 6.8" x 18.9"	Rack	Socket R3	No	16 W
	Intel® Server Board S2600WTTR	Launched	Custom 16.7" x 17"	Rack	Socket R3	No	14 W
	Intel® Server Board S2600WT2R	Launched	Custom 16.7" x 17"	Rack	Socket R3	No	14 W
	Intel® Server Board S2600WTTS1R	Launched	Custom 16.7" x 17"	Rack	Socket R3	No	14 W
	Intel® Compute Module HNS2600KPFR	Launched	Custom 6.4" x 17.7"	Rack	Socket R3	No	14 W
	Intel® Compute Module HNS2600KPR	Launched	Custom 6.4" x 17.7"	Rack	Socket R3	No	14 W
	Intel® Compute Module HNS2600TP24R	Launched	Custom 6.8" x 18.9"	Rack	Socket R3	No	14 W
	Intel® Compute Module HNS2600TP24SR	Launched	Custom 6.8" x 18.9"	Rack	Socket R3	No	14 W
	Intel® Compute Module HNS2600TP24STR	Launched	Custom 6.8" x 18.9"	Rack	Socket R3	Yes	14 W
	Intel® Compute Module HNS2600TPR	Launched	Custom 6.8" x 18.9"	Rack	Socket R3	No	14 W

Compare	Product Name	Status	Chassis Form Factor	Board Form Factor	Socke
Compare All +					
	Intel® Server System R1208WT2GSR	Launched	1U Rack	Custom 16.7" x 17"	Socket R3
	Intel® Server System R1208WTTGSR	Launched	1U Rack	Custom 16.7" x 17"	Socket R3
	Intel® Server System R1304WT2GSR	Launched	1U Rack	Custom 16.7" x 17"	Socket R3

Compare	Product Name	Status	Chassis Form Factor	Board Form Factor	Socket
Compare All +					
	Intel® Server System R1304WTTGSR	Launched	1U Rack	Custom 16.7" x 17"	Socket R3
	Intel® Server System MCB2208WAF5	Announced	2U Rack	Custom 16.7" x 17"	Socket R3
	Intel® Server System R2208WTTYSR	Launched	2U Rack	Custom 16.7" x 17"	Socket R3
	Intel® Server System R2208WT2YSR	Launched	2U Rack	Custom 16.7" x 17"	Socket R3
	Intel® Server System R2208WTTYC1R	Launched	2U Rack	Custom 16.7" x 17"	Socket R3
	Intel® Server System R2308WTTYSR	Launched	2U Rack	Custom 16.7" x 17"	Socket R3
	Intel® Server System R2312WTTYSR	Launched	2U Rack	Custom 16.7" x 17"	Socket R3
	Intel® Server System R2224WTTYSR	Launched	2U Rack	Custom 16.7" x 17"	Socket R3

Benchmarks

Benchmark	Sockets	Score
SPECfp_rate_base2006	2	979
SPECint_rate_base2006	2	1430

SPECfp is a registered trademark of the Standard Performance Evaluation Corporation (SPEC).

SPECint is a registered trademark of the Standard Performance Evaluation Corporation (SPEC).

Software and workloads used in performance tests may have been optimized for performance only on Intel microprocessors.

Performance tests, such as SYSmark and MobileMark, are measured using specific computer systems, components, software, operations and functions. Any change to any of those factors may cause the results to vary. You should consult other information and performance tests to assist you in fully evaluating your contemplated purchases, including the performance of that product when combined with other products. For more complete information visit <a href="http://www.intel.com/content/www/us/en/benchmarks/b

Configurations: System configurations are included in the benchmark details linked above.

Ordering and Spec Information

Trade Compliance Information

ECCN	CCATS	US HTS
5A992C	G077159	8542310000

Ordering and Spec Information

Spec Code	Ordering Code	Step	RCP
Boxed Intel® Xeon® Processor E5-2695 v4 (45M Cache, 2.10 GHz) FC-LGA14A			
SR2J1	BX80660E52695V4	ВО	\$2428.00
Intel® Xeon® Processor E5-2695 v4 (45M Cache, 2.10 GHz) FC-LGA14A, Tray			
SR2J1	CM8066002023801	ВО	\$2424.00

Download Drivers

All information provided is subject to change at any time, without notice. Intel may make changes to manufacturing life cycle, specifications, and product descriptions at any time, without notice. The information herein is provided "as-is" and Intel does not make any representations or warranties whatsoever regarding accuracy of the information, nor on the product features, availability, functionality, or compatibility of the products listed. Please contact system vendor for more information on specific products or systems.

"Intel classifications" consist of Export Control Classification Numbers (ECCN) and Harmonized Tariff Schedule (HTS) numbers. Any use made of Intel classifications are without recourse to Intel and shall not be construed as a representation or warranty regarding the proper ECCN or HTS. Your company may be the exporter of record, and as such, your company is responsible for determining the correct classification of any item at the time of export.

Refer to Datasheet for formal definitions of product properties and features.

"Announced" SKUs are not yet available. Please refer to the Launch Date for market availability.

Some products can support AES New Instructions with a Processor Configuration update, in particular, i7-2630QM/i7-2635QM, i7-2670QM/i7-2675QM, i5-2430M/i5-2435M, i5-2410M/i5-2415M. Please contact OEM for the BIOS that includes the latest Processor configuration update.

‡ This feature may not be available on all computing systems. Please check with the system vendor to determine if your system delivers this feature, or reference the system specifications (motherboard, processor, chipset, power supply, HDD, graphics controller, memory, BIOS, drivers, virtual machine monitor-VMM, platform software, and/or operating system) for feature compatibility. Functionality, performance, and other benefits of this feature may vary depending on system configuration.

"Conflict free" and "conflict-free" means "DRC conflict free", which is defined by the U.S. Securities and Exchange Commission rules to mean products that do not contain conflict minerals (tin, tantalum, tungsten and/or gold) that directly or indirectly finance or benefit armed groups in the Democratic Republic of the Congo (DRC) or adjoining countries. Intel also uses the term "conflict-free" in a broader sense to refer to suppliers, supply chains, smelters and refiners whose sources of conflict minerals do not finance conflict in the DRC or adjoining countries. Intel processors manufactured before January 1, 2013 are not confirmed conflict free designation refers only to product manufactured after that date. For Intel Boxed Processors, the conflict free designation refers to the processor only, not to any additional included accessories, such as heatsinks/coolers.

See http://www.intel.com/content/www/us/en/architecture-and-technology/hyper-threading/hyper-threading-technology.html?wapkw=hyper+threading for more information including details on which processors support Intel® HT Technology.

Max Turbo Frequency refers to the maximum single-core processor frequency that can be achieved with Intel® Turbo Boost Technology. See www.intel.com/technology/turboboost/ for more information.

The Recommended Customer Price ("RCP") is pricing guidance for Intel products. Prices are for direct Intel customers, typically represent 1,000-unit purchase quantities, and are subject to change without notice. Taxes and shipping, etc. not included. Prices may vary for other package types and shipment quantities, and special promotional arrangements may apply. If sold in bulk, price represents individual unit. Listing of these RCP does not constitute a formal pricing offer from Intel. Please work with your appropriate Intel representative to obtain a formal price quotation.

System and Maximum TDP is based on worst case scenarios. Actual TDP may be lower if not all I/Os for chipsets are used.

Low Halogen: Applies only to brominated and chlorinated flame retardants (BFRs/CFRs) and PVC in the final product. Intel components as well as purchased components on the finished assembly meet JS-709 requirements, and the PCB / substrate meet IEC 61249-2-21 requirements. The replacement of halogenated flame retardants and/or PVC may not be better for the environment.

For benchmarking data see http://www.intel.com/performance.

Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. See http://www.intel.com/content/www/us/en/processors/processor-numbers.html for details.

Processors that support 64-bit computing on Intel® architecture require an Intel 64 architecture-enabled BIOS.

Send us your feedback!