



# Intel® Xeon® Processor E5-2640 v4 (25M Cache, 2.40 GHz)

## Ordering and Spec Information

Spec Code	Ordering Code	Step
Intel® Xeon® Processor E5-2640 v4 (25M Cache, 2.40 GHz) FC-LGA14A, Tray		
SR2NZ	CM8066002032701	R0

## Specifications


### Essentials


Processor Number	E5-2640V4
Status	Launched
Launch Date	Q1'16
Lithography	14 nm
Recommended Customer Price	\$939.00

### Performance

# of Cores	10
# of Threads	20
Processor Base Frequency	2.40 GHz
Max Turbo Frequency	3.40 GHz
Cache	25 MB SmartCache
Bus Speed	8 GT/s QPI
# of QPI Links	2
TDP	90 W
VID Voltage Range	0

### Supplemental Information


Embedded Options Available	 Yes
Conflict Free	Yes
Datasheet	<a href="#">Link</a>

Memory Specifications	
Max Memory Size (dependent on memory type)	1.54 TB
Memory Types	DDR4 1600/1866/2133
Max # of Memory Channels	4
Max Memory Bandwidth	68.3 GB/s
Physical Address Extensions	46-bit
ECC Memory Supported †	 Yes

Graphics Specifications	
Processor Graphics †	None

Expansion Options	
Scalability	2S
PCI Express Revision	3.0
PCI Express Configurations †	x4, x8, x16
Max # of PCI Express Lanes	40

Package Specifications	
Sockets Supported	FCLGA2011-3
Max CPU Configuration	2
T <sub>CASE</sub>	76°C
Package Size	45mm x 52.5mm
Low Halogen Options Available	See MDDS

Intel® Platform Protection Technology	
OS Guard	Yes
Trusted Execution Technology †	 Yes
Execute Disable Bit †	Yes

Advanced Technologies		
Intel® Turbo Boost Technology ‡		2.0
Intel® vPro Technology ‡		Yes
Intel® Hyper-Threading Technology ‡		Yes
Intel® Virtualization Technology (VT-x) ‡		Yes
Intel® Virtualization Technology for Directed I/O (VT-d) ‡		Yes
Intel® VT-x with Extended Page Tables (EPT) ‡		Yes
Intel® TSX-NI		Yes
Intel® 64 ‡		Yes
Instruction Set		64-bit
Instruction Set Extensions		AVX 2.0
Idle States		Yes
Enhanced Intel SpeedStep® Technology		Yes
Intel® Demand Based Switching		Yes
Thermal Monitoring Technologies		Yes
Intel® Flex Memory Access		No
Intel® Identity Protection Technology ‡		No
Intel® Data Protection Technology		
Intel® AES New Instructions		Yes
Secure Key		Yes