

Processor	
Processor family	Intel® Xeon® E5 V2 Family
Processor frequency	2.7 GHz
Processor cores	12
Processor socket	Socket R (LGA 2011)
Component for	Server/workstation
Processor lithography	22 nm
Processor model	E5-2697V2
Processor threads	24
System bus rate	8 GT/s
Processor operating modes	32-bit, 64-bit
Processor cache	30 MB
Processor cache type	L3
Processor boost frequency	3.5 GHz
Bus type	QPI
Number of QPI links	2

Memory	
Maximum internal memory supported by processor	768 GB
Memory types supported by processor	DDR3-SDRAM
Memory clock speeds supported by processor	800,1066,1333,1600,1866 MHz
Memory bandwidth supported by processor (max)	59.7 GB/s
Memory channels supported by processor	Quad
ECC supported by processor	

Graphics	
On-board graphics adapter	

Power	
VID Voltage Range	0.65 - 1.30 V

Features	
Execute Disable Bit	
Idle States	
Thermal Monitoring Technologies	
PCI Express slots version	3.0
Thermal Design Power (TDP)	130 W
Scalability	2S
Embedded options available	

Processor special features	
Intel® Hyper Threading Technology (Intel® HT Technology)	
Intel® Identity Protection Technology (Intel® IPT)	
Intel® Turbo Boost Technology	2.0
Intel® vPro™ Technology	
Intel Flex Memory Access	
Intel® Smart Cache	
Intel® AES New Instructions (Intel® AES-NI)	
Enhanced Intel SpeedStep Technology	
Intel Trusted Execution Technology	
Intel VT-x with Extended Page Tables (EPT)	
Intel Demand Based Switching	
Intel® Secure Key	
Intel TSX-NI	
Intel Virtualization Technology (VT-x)	
Intel Virtualization Technology for Directed I/O (VT-d)	

Operational conditions	
Tcase	86 °C

Weight & dimensions	
Package width	52.5 mm
Package depth	51 mm

Other features	
Intel® Virtualization Technology (Intel® VT)	VT-d,VT-x