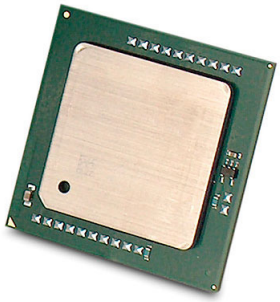
HP Intel Xeon E5-4650 processor 2.7 GHz 20 MB L3



Brand : HP

Product code: 679098-B21

Product name : Intel Xeon E5-4650

Intel Xeon E5-4650 (20M Cache, 2.70 GHz, 8.00 GT/s QPI)
HP Intel Xeon E5-4650. Processor family: Intel® Xeon® E5 Family, Processor socket: LGA 2011 (Socket R), Processor lithography: 32 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 1.5 TB, Memory types supported by processor: DDR3-SDRAM. Market segment: Server, Supported instruction sets: AVX, Scalability: S4S. Processor package size: 52.5 mm. Intel® Virtualization Technology (Intel® VT): VT-d, VT-x

Processor	
Processor model *	E5-4650
Processor base frequency *	2.7 GHz
Processor family *	Intel® Xeon® E5 Family
Processor cores *	8
Processor socket *	LGA 2011 (Socket R)
Component for	Server/workstation
Processor lithography *	32 nm
Processor threads	16
System bus rate	8 GT/s
Processor operating modes *	64-bit
Processor boost frequency	3.3 GHz
Processor cache	20 MB
Processor cache type	L3
L3 cache speed	2.7 GHz
Thermal Design Power (TDP)	130 W
VID Voltage Range	0.6 - 1.35 V
Stepping	C2
Bus type	QPI
Number of QPI links	2
Memory bandwidth supported by processor (max)	51.2 GB/s

Memory	
Maximum internal memory supported by processor	1.5 TB
Memory types supported by processor	DDR3-SDRAM
Memory clock speeds supported by processor	800,1066,1333,1600 MHz
Memory channels *	Quad-channel
ECC	✓

Features	
Execute Disable Bit	✓
Idle States	✓

Features	
Thermal Monitoring Technologies	✓
Market segment	Server
PCI Express slots version	3.0
Supported instruction sets	AVX
Scalability	S4S
CPU configuration (max)	4
Embedded options available	✗

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

Weight & dimensions	
Processor package size	52.5 mm

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

Publication date: 22-DEC-2023. Prints or copies of Information are only valid on the printed Publication date