



## HP Intel Xeon E5-2603 processor 1.8 GHz 10 MB L3

Brand : HP

Product code: 654780-B21

Product name : Intel Xeon E5-2603



Intel Xeon E5-2603, 10M Cache, 1.80 GHz, 6.40 GT/s Intel QPI  
HP Intel Xeon E5-2603. 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: 750 GB, Memory clock speeds supported by processor: 800,1066 MHz. Market segment: Server. Intel® Virtualization Technology (Intel® VT): VT-d, VT-x

### Processor

Processor model *	E5-2603
Processor base frequency *	1.8 GHz
Processor family *	Intel® Xeon® E5 Family
Processor cores *	4
Processor socket *	LGA 2011 (Socket R)
Component for	Server/workstation
Processor lithography *	32 nm
Processor threads	4
System bus rate	6.40 GT/s
Processor operating modes *	64-bit
Processor cache	10 MB
Processor cache type	L3
Thermal Design Power (TDP)	80 W
VID Voltage Range	0.6 - 1.35 V
Stepping	M1
CPU multiplier (bus/core ratio)	18
Memory bandwidth supported by processor (max)	34.1 GB/s

### Memory

Maximum internal memory supported by processor	750 GB
Memory clock speeds supported by processor	800,1066 MHz
Memory channels *	Quad-channel
ECC	✓

### Features

Execute Disable Bit	✓
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### Features

Idle States	✓
Thermal Monitoring Technologies	✓
Market segment	Server
PCI Express slots version	3.0
CPU configuration (max)	2

### Processor special features

Intel Flex Memory Access	✓
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 Virtualization Technology (VT-x)	✓
Intel Virtualization Technology for Directed I/O (VT-d)	✓
Intel® vPro™ Platform Eligibility	✓

### Operational conditions

Tcase	70 °C
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### Other features

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