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Intel® Xeon® Processor E5-2640
(15M Cache, 2.50 GHz, 7.20 GT/s Intel® QPI)

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Specifications

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Specifications

⊖ Essentials

Status	Launched
Launch Date	Q1'12
Processor Number	E5-2640
Intel® Smart Cache	15 MB
Intel® QPI Speed	7.2 GT/s
# of QPI Links	2
Instruction Set	64-bit
Instruction Set Extensions	AVX
Embedded Options Available 🔍	No
Lithography	32 nm
Scalability	2S Only
VID Voltage Range	0.60V-1.35V
Recommended Customer Price	BOX : $889.00 TRAY: $885.00
Datasheet	Link

⊖ Performance

# of Cores	6
# of Threads	12
Processor Base Frequency	2.5 GHz
Max Turbo Frequency	3 GHz
TDP	95 W

⊖ Memory Specifications

Max Memory Size (dependent on memory type)	384 GB
Memory Types	DDR3 800/1066/1333
Max # of Memory Channels	4
Max Memory Bandwidth	42.6 GB/s
ECC Memory Supported * 🔍	Yes

⊖ Expansion Options

PCI Express Revision	3.0
Max # of PCI Express Lanes	40

⊖ Package Specifications

Max CPU Configuration	2
T$_{CASE}$	73 ºC
Package Size	52.5mm x 45.0mm
Sockets Supported	FCLGA2011
Low Halogen Options Available	See MDDS

⊖ Advanced Technologies

Intel® Turbo Boost Technology *	1.0
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® 64 * 🔍	Yes
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

AES New Instructions 🔍	Yes

⊖ Intel® Platform Protection Technology

Trusted Execution Technology * 🔍	Yes
Execute Disable Bit *	Yes

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