64-bit Intel® Xeon® Processor 2.80E GHz, 2M Cache, 800 MHz FSB

Summary Information

Product Family	Intel® Xeon® Processor
Code Name	Products formerly Irwindale
Product Status	Launched
Launch Date	
Mfg Avail	2+ Yrs
Lithography	90 nm
Number of Cores	1
Intel® Hyper-Threading Technology	✗
Intel® Virtualization Technology	✗
Intel® 64 Architecture	✓
Enhanced Intel SpeedStep® Technology	✓
Intel® Turbo Boost Technology	✗
Demand Based Switching	✗
Execute Disable Bit	✓
Intel® Stable Image Platform Program (Intel® SIPP)	✗
Intel® Trusted Execution Technology	✗
Halogen Free Options Available	✗
Package Size	42.5mm x 42.5mm
Tcase	73
Max TDP	110 Watts
Core Voltage	1.2875V-1.3875V
1k Estimated Price	$193.00

No Ordering Codes Available

Processor Ordering Information

None Listed

Processor Samples

None Listed

Retired & Discontinued Processors

External Product Name	Socket	Step	CPUID	Ordering Code	SPEC Code
Boxed 64-bit Intel® Xeon® Processor 2.80E GHz, 2M Cache, 800 MHz FSB, Passive, FC-mPGA	PPGA604	R0	0F4a	BX80546KG2800FP	SL8P7
Boxed 64-bit Intel® Xeon® Processor 2.80E GHz, 2M Cache, 800 MHz FSB, 1U, FC-mPGA	PPGA604	R0	0F4a	BX80546KG2800FU	SL8P7
Boxed 64-bit Intel® Xeon® Processor 2.80E GHz, 2M Cache, 800 MHz FSB, FC-mPGA	PPGA604	R0	0F4a	BX80546KG2800FA	SL8P7
64-bit Intel® Xeon® Processor 2.80E GHz, 2M Cache, 800 MHz FSB, FC-mPGA, Tray	PPGA604	R0	0F4a	NE80546KG0722MM	SL8P7
Boxed 64-bit Intel® Xeon® Processor 2.80E GHz, 2M Cache, 800 MHz FSB, 1U, FC-mPGA	PPGA604	N0	0F43	BX80546KG2800FU	SL7ZG
Boxed 64-bit Intel® Xeon® Processor 2.80E GHz, 2M Cache, 800 MHz FSB, FC-mPGA	PPGA604	N0	0F43	BX80546KG2800FA	SL7ZG
64-bit Intel® Xeon® Processor 2.80E GHz, 2M Cache, 800 MHz FSB, FC-mPGA, Tray	PPGA604	N0	0F43	RK80546KG0722MM	SL8ZR
64-bit Intel® Xeon® Processor 2.80E GHz, 2M Cache, 800 MHz FSB, FC-mPGA, Tray	PPGA604	N0	0F43	RK80546KG0722MM	SL7ZG

Valid Chipset Combinations

System Configuration	7+ year System Mfg Avail	Intel® SIPP	# of CPUs	System TDP	Estimated 1k Unit System Price
Intel® E7520 Chipset with 6300ESB I/O Controller Hub	✗	✗	2	233.9 Watts	N/A
Intel® E7520 Chipset with 6300ESB I/O Controller Hub	✗	✗	1	123.9 Watts	N/A
Intel® E7520 Chipset with 82801ER I/O Controller Hub 5 R (ICH5R)	✗	✗	2	232.4 Watts	N/A
Intel® E7520 Chipset with 82801ER I/O Controller Hub 5 R (ICH5R)	✗	✗	1	122.4 Watts	N/A

Enabling Execute Disable Bit functionality requires a PC with a processor with Execute Disable Bit capability and a supporting operating system. Check with your PC manufacturer on whether your system delivers Execute Disable Bit functionality.

64-bit computing on Intel® architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. Consult with your system vendor for more information.

Hyper-Threading Technology (HT Technology) requires a computer system with an Intel® processor supporting HT Technology and an HT Technology enabled chipset, BIOS and operating system. Performance will vary depending on the specific hardware and software you use. See www.intel.com/products/ht/hyperthreading_more.htm for more information including details on which processors support HT Technology.

Intel® Virtualization Technology requires a computer system with a processor, chipset, BIOS, virtual machine monitor (VMM) and for some uses, certain platform software, enabled for it. Functionality, performance or other benefit will vary depending on hardware and software configurations. Intel Virtualization Technology-enabled VMM applications are currently in development.

Note: Prices subject to change without notice. Prices are for direct Intel customers in 1000-unit bulk quantities and, unless specified, represent the latest technology versions of the products. Taxes and shipping, etc. not included. Prices may vary for other package types and shipment quantities, and special promotional arrangements may apply.

Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. See http://www.intel.com/products/processor_number for details.

System and Maximum TDP is based on worst case scenarios. Actual TDP may be lower if not all I/Os for chipsets are used.

All information provided is subject to change at any time, without notice. Intel may make changes to manufacturing life cycle, specifications, and product descriptions at any time, without notice.

Halogen Free implies the following:

Bromine and/or chlorine in materials that may be used during processing, but do not remain within the final product are not included in this definition. The halogens fluorine (F), iodine (I), and astatine (At) are not restricted by this standard.

"BFR/CFR and PVC-Free" Definition:
An article must meet all of the following requirements to be defined as "BFR/CFR and PVC-Free":

1. All PCB laminates must meet Br and Cl requirements for low halogen as defined in IPC-4101B
2. For components other than PCB laminates, all homogeneous materials must contain < 900 ppm (0.09%) of Bromine [if the Bromine (Br) source is from BFRs] and < 900 ppm (0.09%) of Chlorine [if the Chlorine (Cl) source is from CFRs or PVC. Higher concentrations of Br and Cl are allowed in homogenous materials of components other than PCB laminates as long as their sources are not BFRs, CFRs, PVC.
3. Although the elemental analysis for Br and Cl in homogeneous materials can be performed by any analytical method with sufficient sensitivity and selectivity, the presence or absence of BFRs, CFRs or PVC must be verified by any acceptable analytical techniques that allow for the unequivocal identification of the specific Br or Cl compounds, or by appropriate material declarations agreed to between customer and supplier.