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Intel® Xeon® Processor D

Intel® Xeon® Processor

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Specifications Essentials Performance Memory Specifications **Graphics Specifications Expansion Options** I/O Specifications Package Specifications Advanced Technologies Intel® Data Protection Technology Intel® Platform Protection Technology Networking Specifications

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Specifications		
- Essentials		
Status	Launched	
Launch Date	Q2'16	
Processor Number	D-1529	
Cache	6 MB	
Instruction Set	64-bit	
Instruction Set Extensions	AVX 2.0	
Embedded Options Available	Yes	
Lithography	14 nm	
Recommended Customer Price	N/A	
Datasheet	Link	
Conflict Free	Yes	
Scalability	15 Only	
Product Brief	Link	

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- Performance	
# of Cores	4
# of Threads	8
Processor Base Frequency	1.3 GHz

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# of Threads	8
Processor Base Frequency	1.3 GHz
Max Turbo Frequency	1.3 GHz
TDP	20 W
Memory Specifications	
Max Memory Size (dependent on memory type)	128 GB

Tremory opecinedations	
Max Memory Size (dependent on memory type)	128 GB
Memory Types	DDR4, DDR3
Max # of Memory Channels	2
ECC Memory Supported ‡	Yes
Graphics Specifications	
Processor Graphics ‡	None

Expansion Options	
PCI Express Revision	2.0/3.0
PCI Express Configurations #	x4 x8 x16
Max # of PCI Express Lanes	26
- I/O Specifications	

USB Revision	2.0
# of USB Ports	8
Total # of SATA Ports	2
Integrated LAN	No
General Purpose IO	Yes
UART	Yes
Package Specifications	

Max CPU Configuration	1
Operating Temperature Range	-40°C to 85°C
Package Size	37.5mm x 37.5mm
Sockets Supported	FCBGA1667
Low Halogen Options Available	See MDDS
Advanced Technologies	
Intel® Turbo Boost Technology #	No

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Intel® Hyper-Threading Technology ‡	Q	Yes
Intel® Virtualization Technology (VT-x) ‡		Yes
Intel® Virtualization Technology for Directed I/O (VT-d) ‡	Q	Yes
Intel® VT-x with Extended Page Tables (EPT) #	Q	Yes
Intel® TSX-NI		Yes
Intel® 64 ‡	Q	Yes
Idle States		Yes
Enhanced Intel SpeedStep® Technology	Q	Yes
Thermal Monitoring Technologies		Yes
Intel® Data Protection Technology		

Intel® AES New Instructions	Yes	
Secure Key	Yes	
Intel® Platform Protection Technology		
Trusted Execution Technology #	Q Yes	

Yes

Yes

No

Execute Disable Bit #

OS Guard

10GBase-T

Networking Specifications	
SFI Interface	No
KR Interface	No
KR4 Interface	No
KX Interface	No
KX4 Interface	No
100Base-T	No
1000Base-T	No

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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. The information

"Announced" SKUs are not yet available. Please refer to the Launch Date for market availability. Some products can support AES New Instructions with a Processor Configuration update, in particular, i7-2630QM/i7-2635QM, i7-2670QM/i7-2675QM, i5-2430M/i5-2435M, i5-2410M/i5-2415M. Please

contact OEM for the BIOS that includes the latest Processor configuration update. ‡ This feature may not be available on all computing systems. Please check with the system vendor to determine if your system delivers this feature, or reference the system specifications [motherboard,]

processor, chipset, power supply, HDD, graphics controller, memory, BIOS, drivers, virtual machine monitor-VMM, platform software, and for operating system) for feature compatibility. Functionality, performance, and other benefits of this feature may vary depending on system configuration. *Conflict free" and *conflict-free" means *DRC conflict free", which is defined by the U.5. Securities and Exchange Commission rules to mean products that do not contain conflict minerals [tin, tantalum, tungsten]

and/or gold) that directly or indirectly finance or benefit armed groups in the Democratic Republic of the Congo (DRC) or adjoining countries. Intel also uses the term "conflict-free" in a broader sense to refer to suppliers, supply chains, smelters and refiners whose sources of conflict minerals do not finance conflict in the DRC or adjoining countries. Intel processors manufactured before January 1, 2013 are not confirmed conflict free. The conflict free designation refers only to product manufactured after that date. For Intel Boxed Processors, the conflict free designation refers to the processor only, not to any additional included accessories, such as heatsinks/coolers. See http://www.intel.com/content/www/us/en/architecture-and-technology/hyper-threading-technology.html?wapkw=hyper+threading for more information including details on which

processors support Intel® HT Technology. Max Turbo Frequency refers to the maximum single-core processor frequency that can be achieved with Intel® Turbo Boost Technology. See www.intel.com/technology/turboboost/ for more information.

The Recommended Customer Price ("RCP") is pricing guidance for Intel products. Prices are for direct Intel customers, typically represent 1,000-unit purchase quantities, and are subject to change without notice. Taxes and shipping, etc. not included. Prices may vary for other package types and shipment quantities, and special promotional arrangements may apply. If sold in bulk, price represents individual unit. Listing of these RCP does not constitute a formal pricing offer from Intel. Please work with your appropriate Intel representative to obtain a formal price quotation.

System and Maximum TDP is based on worst case scenarios. Actual TDP may be lower if not all I/Os for chipsets are used. Low Halogen: Applies only to brominated and chlorinated flame retardants (BFRs/CFRs) and PVC in the final product. Intel components as well as purchased components on the finished assembly meet J5-709

USA (English)

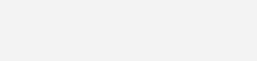
requirements, and the PCB / substrate meet IEC 61249-2-21 requirements. The replacement of halogenated flame retardants and/or PVC may not be better for the environment. For benchmarking data see http://www.intel.com/performance.

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/content

/www/us/en/processors/processor-numbers.html for details. Processors that support 64-bit computing on Intel® architecture require an Intel 64 architecture-enabled BIOS.

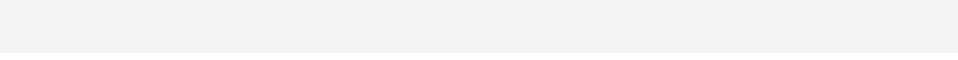
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