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Intel®Xeon®Processor D-1528 (9M Cache, 1.90 GHz)

of Cores

TDP

of Threads

Processor Base Frequency

- Graphics Specifications

Max Turbo Frequency

O. C. Charles	
Specifications	
Essentials	
Performance	
Memory Specifications	
Graphics Specifications	
Expansion Options	
I/O Specifications	
Package Specifications	
Advanced Technologies	
Intel®Data Protection Technology	
Intel®Platform Protection Technology	
Ordering / sSpecs / Steppings	

Specifications		
- Essentials		
Status	Launched	
Launch Date	Q4'15	
Processor Number	D-1528	
Cache	9 MB	
Instruction Set	64-bit	
Instruction Set Extensions	AVX 2.0	
Embedded Options Available	Yes	
Lithography	14 nm	
Recommended Customer Price	TRAY:	
Datasheet	Link	
Scalability	1S Only	
Product Brief	Link	
- Performance		

Family Intel®Xeon®Processor D-1500 Family Products formerly Broadwell Visit the Embedded Design Center >> **Quick Links Export Full** Specifications > Search Distributors > Support Overview >> Search all of intel.com > PCN/MDDS Information SR2DL 944008: PCN | MDDS

Compare

Intel®Xeon®Processor D

Related Products

- Memory Specifications	
Max Memory Size (dependent on memory type)	128 GB
Memory Types	DDR4, DDR3
Max # of Memory Channels	2
ECC Memory Supported ‡	Yes

12

1.9 GHz

2.5 GHz

35 W

Processor Graphics ‡	None
- Expansion Options	
PCI Express Revision	2.0/3.0
PCI Express Configurations ‡	x4 x8 x16
Max # of PCI Express Lanes	32

- I/O Specifications	
USB Revision	2.0/3.0
# of USB Ports	4
Total # of SATA Ports	6
Integrated LAN	Yes
ченега г агрозе 10	Yes

UART Yes	
Package Specifications	
Max CPU Configuration 1	
Package Size 37.5m	nm x 37.5mm
Sockets Supported FCBG	A1667
Low Halogen Options Available See M	IDDS
- Advanced Technologies	
Intel®Turbo Boost Technology ‡ 2.0	
Intel®Hyper-Threading Technology ‡	
Intel®Virtualization Technology (VT-x) [‡]	
Intel®Virtualization Technology for Directed I/O (VT-d) ‡	
Intel®VT-x with Extended Page Tables (EPT) ‡	
Intel®TSX-NI Yes	
Intel®64 ‡ Q Yes	
Idle States Yes	
Enhanced Intel SpeedStep®Technology Yes	
Thermal Monitoring Technologies Yes	
Intel®Data Protection Technology	
Intel®AES New Instructions Yes	
Secure Key Yes	
Intel®Platform Protection Technology	
Trusted Execution Technology †	
Execute Disable Bit [‡]	
OS Guard Yes	
Networking Specifications	
SFI Interface Yes	
KR Interface Yes	
KR4 Interface No	
KX Interface Yes	
KX4 Interface Yes	
100Base-T No	
1000Base-T	
10GBase-T Yes	

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Refer to Datasheet for formal definitions of product properties and features.

"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/or 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.S. 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/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 sinale-core processor frequency that can be achieved with Intel®Turbo Boost Technology. See www.intel.com/technology/turboboost/ for more information. Downloaded from Arrow.com.

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 JS-709 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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