Intel® Pentium® Processor D1517 (6M Cache, 1.60 GHz)

Specifications

Essentials

Status	Launched
Launch Date	Q4'15
Processor Number	D1517
Cache	6 MB
Instruction Set	64-bit
Instruction Set Extensions	AVX 2.0
Embedded Options Available	Yes
Lithography	14 nm
Recommended Customer Price	TRAY: $194.00
Datasheet	Link
Conflict Free	Yes
Scalability	1S Only
Product Brief	Link

Performance

# of Cores	4
# of Threads	8
Processor Base Frequency	1.6 GHz
Max Turbo Frequency	2.2 GHz
TDP	25 W

Memory Specifications

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	32

- I/O Specifications	
USB Revision	2.0/3.0
# of USB Ports	8
Total # of SATA Ports	6
Integrated LAN	Yes
General Purpose IO	Yes
UART	Yes

- Package Specifications	
Max CPU Configuration	1
Package Size	37.5mm x 37.5mm
Sockets Supported	FCBGA1667
Low Halogen Options Available	See MDDS

- Advanced Technologies	
Intel® Turbo Boost Technology ‡	2.0
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® TSX-NI	Yes
Intel® 64 ‡	Yes
Idle States	Yes
Enhanced Intel SpeedStep® Technology	Yes
Thermal Monitoring Technologies	Yes
Intel® Identity Protection Technology ‡	Yes

- Intel® Data Protection Technology	
Intel® AES New Instructions	Yes
Secure Key	Yes

- Intel® Platform Protection Technology	
Trusted Execution Technology ‡	Yes
Execute Disable Bit ‡	Yes
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	Yes
10GBase-T	Yes

Ordering and Spec Information

Trade Compliance Information

ECCN	CCATS	US HTS
5A992CN3	G071701++	8542310000

Ordering and Spec Information

Spec Code	Ordering Code	Step	RCP
Intel® Pentium® Processor D1517 (6M Cache, 1.60 GHz) FC-BGA14C, Tray			
SR2GG	GG8067402612800	V2	$194.00

Download Drivers

Intel® Processor Frequency ID Utility Windows* version [FIDXX32.MSI]

The Intel® Processor Frequency ID Utility can be used to identify Intel® processors.

Version: 7.2 (Latest) **Date:** 11/16/2004

Operating Systems: Windows XP Home Edition*, Windows XP Professional*, Windows 98 SE*, 2 more

Intel® Processor Frequency ID Utility Bootable version [BFID_X25.EXE]

The bootable version of Intel® Processor Frequency ID Utility can be used to identify Intel® processors for non-OS dependant systems.

Version: 7.2 (Latest) **Date:** 11/15/2004

Operating Systems: OS Independent

CPUID for DOS* [CPUID.EXE]

This file contains the processor identification utility.

Version: 0.0 (Previously Released) **Date:** 8/17/2000

Operating Systems: DOS

CPUInfo Package [cpuinfo.zip]

This file contains the processor identification utility.

Version: 0.0 (Previously Released) **Date:** 8/17/2000

Operating Systems: OS Independent

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 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 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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