



ARK Home ▶

Type Here to Search Products



Intel® Celeron® Processor G540 (2M Cache, 2.50 GHz)

Add to Compare

SPECIFICATIONS

Essentials

Memory Specifications

Graphics Specifications

Expansion Options

Package Specifications

Advanced Technologies

Intel® Data Protection Technology

Intel® Platform Protection Technology

COMPATIBLE PRODUCTS

PRODUCT IMAGES

ORDERING / SSPECS / STEPPINGS

SPECIFICATIONS

Essentials

Status Launched

Launch Date Q3'11

Processor Number G540

of Cores 2

of Threads 2

Clock Speed 2.5 GHz

Intel® Smart Cache 2 MB

DMI 5 GT/s

Instruction Set 64-bit

Instruction Set Extensions SSE4.1/4.2

Embedded Options Available  Yes

Lithography 32 nm

Max TDP 65 W

Recommended Customer Price BOX: \$42.00
TRAY: \$42.00

Memory Specifications

Max Memory Size (dependent on memory type) 32 GB

Memory Types DDR3-1066

of Memory Channels 2


Max Memory Bandwidth 17 GB/s

Graphics Specifications

Processor Graphics ‡ Intel® HD Graphics

Graphics Base Frequency 850 MHz

Graphics Max Dynamic Frequency 1 GHz

Intel® Quick Sync Video  No

Intel® InTru™ 3D Technology No

Intel® Insider™ No

Intel® Wireless Display  No

Intel® Flexible Display Interface (Intel® FDI) Yes

Intel® Clear Video HD Technology No

of Displays Supported ‡ 2

Expansion Options

PCI Express Revision 2.0

Package Specifications

Max CPU Configuration 1

T_{CASE} 69.1°C


Package Size 37.5mm x 37.5mm

Sockets Supported FCLGA1155

Low Halogen Options Available See MDDS

Advanced Technologies

Intel® Turbo Boost Technology ‡ No

Intel® vPro Technology ‡  No

Intel® Hyper-Threading Technology ‡  No

Intel® Virtualization Technology (VT-x) ‡  Yes

Intel® Virtualization Technology for Directed I/O (VT-d) ‡  No

Intel® VT-x with Extended Page Tables (EPT) ‡  Yes

Intel® 64 ‡  Yes

Idle States Yes

Enhanced Intel SpeedStep® Technology  Yes

Thermal Monitoring Technologies Yes

Intel® Fast Memory Access Yes

RELATED PRODUCTS

- [Intel® Celeron® Processor](#)
- [Intel® Celeron® Processor G500 Series for Desktop](#)
- [Products formerly Sandy Bridge](#)



- [Visit the Embedded Design Center >](#)

QUICK LINKS

- [Download Datasheet](#)
- [Find Compatible Boards](#)
- [Search Distributors](#)
- [Software Downloads](#)
- [Support Overview](#)
- [Search all of intel.com](#)

PCN/MDDS Information

SR05J
910601: PCN | [MDDS](#)
916626: PCN | [MDDS](#)
916627: PCN | [MDDS](#)

Intel® Flex Memory Access	Yes
Intel® Data Protection Technology	
AES New Instructions	No
Intel® Platform Protection Technology	
Trusted Execution Technology‡	No
Execute Disable Bit‡	Yes

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 herein is provided "as-is" and Intel does not make any representations or warranties whatsoever regarding accuracy of the information, nor on the product features, availability, functionality, or compatibility of the products listed. Please contact system vendor for more information on specific products or systems.

"Intel classifications" consist of Export Control Classification Numbers (ECCN) and Harmonized Tariff Schedule (HTS) numbers. Any use made of Intel classifications are without recourse to Intel and shall not be construed as a representation or warranty regarding the proper ECCN or HTS. Your company may be the exporter of record, and as such, your company is responsible for determining the correct classification of any item at the time of export.

"Announced" SKUs are not yet available. Please refer to the Launch Date for market availability.

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.

For benchmarking data see <http://www.intel.com/performance>.

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

The Recommended Customer Price ("RCP") is pricing guidance for Intel products. Prices are for direct Intel customers 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. 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.

‡ 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.

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.

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.

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.

Processors that support 64-bit computing on Intel® architecture require an Intel 64 architecture-enabled BIOS.

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.

[Send us your feedback!](#)