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☒ Yes ☐ No

## Essen

## 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

Memory Specifications	
Max Memory Size (dependent on memory type)	16 GB
Memory Types	DDR3-1066/1333
# of Memory Channels	2
Max Memory Bandwidth	21.3 GB/s
ECC Memory Supported †	 <input checked="" type="checkbox"/> Yes

## Graphics Specifications

Expansion Options	
PCI Express Revision	2.0
PCI Express Configurations ‡	1x16, 2x8, 1x8 2x4
Max # of PCI Express Lanes	16

## Package Specifications

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® 64 ‡	Yes
Intel® My WiFi Technology	No
4G WiMAX Wireless Technology	No
Idle States	Yes
Enhanced Intel SpeedStep® Technology	Yes

## RELATED PRODUCTS

- Intel® Celeron® Processor
- Intel® Celeron® Processor 800 Series for Mobile
- Products formerly Sandy Bridge




## QUICK LINKS

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### PCN/MDDS Information


**SR0C6**  
914933: **PCN** | **MDDS**

Intel® Demand Based Switching	 No
Thermal Monitoring Technologies	Yes
Intel® Fast Memory Access	Yes
Intel® Flex Memory Access	Yes

Intel® Data Protection Technology

AES New Instructions	 No
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Intel® Platform Protection Technology

Trusted Execution Technology‡	 No
Anti-Theft Technology	No

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"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/](http://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!