



# Intel® Core™ i7-880 Processor

8M Cache, 3.06 GHz

☐ Add to Compare

## Specifications

### Essentials

- Performance
- Supplemental Information
- Memory Specifications
- Expansion Options
- Package Specifications
- Advanced Technologies
- Security & Reliability

### Ordering and Compliance

### Compatible Products

### Downloads and Software

## Essentials

Export specifications

Product Collection	Legacy Intel® Core™ Processors
Code Name	Products formerly Lynnfield
Vertical Segment	Desktop
Processor Number	i7-880
Status	Discontinued
Launch Date	Q2'10
Lithography	45 nm
Recommended Customer Price	N/A

## Performance

# of Cores	4
# of Threads	8
Processor Base Frequency	3.06 GHz
Max Turbo Frequency	3.73 GHz
Cache	8 MB SmartCache
Bus Speed	2.5 GT/s DMI
TDP	95 W
VID Voltage Range	0.6500V-1.4000V

## Supplemental Information

Embedded Options Available	No
Datasheet	<a href="#">View now</a>

## Memory Specifications

Max Memory Size (dependent on memory type)	16 GB
Memory Types	DDR3 1066/1333
Max # of Memory Channels	2
Max Memory Bandwidth	21 GB/s
Physical Address Extensions	36-bit
ECC Memory Supported †	No

## Expansion Options

PCI Express Revision	2.0
PCI Express Configurations †	1x16, 2x8
Max # of PCI Express Lanes	16

## Package Specifications

Sockets Supported	LGA1156
Max CPU Configuration	1
T <sub>CASE</sub>	72.7°C
Package Size	37.5mm x 37.5mm
Processing Die Size	296 mm <sup>2</sup>
# of Processing Die Transistors	774 million
Low Halogen Options Available	See MDDS

## Advanced Technologies

Intel® Turbo Boost Technology †	1.0
Intel® vPro™ Technology	Yes
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® 64 †	Yes
Instruction Set	64-bit
Instruction Set Extensions	Intel® SSE4.2
Idle States	Yes
Enhanced Intel SpeedStep® Technology	Yes
Intel® Demand Based Switching	No
Thermal Monitoring Technologies	No

## Security & Reliability

Intel® AES New Instructions	No
Intel® Trusted Execution Technology †	Yes
Execute Disable Bit †	Yes

## More support options for Intel® Core™ i7-880 Processor (8M Cache, 3.06 GHz)

Product Support

Downloads and Software

Support Community

Warranty and Replacement



Need more help?

Contact support



Give Feedback

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 are for informational purposes only and 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 as an importer and/or exporter is responsible for determining the correct classification of your transaction.

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.

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/](http://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.

