



Intel Atom® Processor N2800

1M Cache, 1.86 GHz

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Essentials

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Product Collection	Intel® Atom™ Processor N Series
Code Name	Products formerly Cedarview
Vertical Segment	Mobile
Processor Number	N2800
Status	Launched
Launch Date ?	Q4'11
Lithography ?	32 nm
Recommended Customer Price ?	
Use Conditions ?	PC/Client/Tablet

Performance

# of Cores ?	2
# of Threads ?	4
Processor Base Frequency ?	1.86 GHz
Cache ?	1 MB L2
Bus Speed ?	2.5 GT/s DMI
TDP ?	6.5 W

Supplemental Information

Embedded Options Available ?	Yes
Datasheet	View now

Memory Specifications

Max Memory Size (dependent on memory type) ?	4.88 GB
Memory Types ?	DDR3
Max # of Memory Channels ?	1

Processor Graphics

Graphics Base Frequency ?	640 MHz
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Package Specifications

Sockets Supported ?	FCBGA559
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Advanced Technologies

Intel® Turbo Boost Technology ‡ ?	No
Intel® vPro™ Platform Eligibility ‡ ?	No
Intel® Hyper-Threading Technology ‡ ?	Yes
Intel® Virtualization Technology (VT-x) ‡ ?	No
Intel® Virtualization Technology for Directed I/O (VT-d) ‡ ?	No
Intel® 64 ‡ ?	Yes
Instruction Set ?	64-bit
Instruction Set Extensions ?	Intel® SSE2, Intel® SSE3, Intel® SSSE3
Enhanced Intel SpeedStep® Technology ?	Yes
Intel® Demand Based Switching ?	No
Thermal Monitoring Technologies ?	Yes

Security & Reliability

Intel® Trusted Execution Technology ‡ ?	No
Execute Disable Bit ‡ ?	Yes

More support options for Intel Atom® Processor N2800 (1M Cache, 1.86 GHz)



Product Support



Downloads and Software



Support Community



Warranty and Replacement



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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.

[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.

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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