



Intel Atom® x7-Z8700 Processor

2M Cache, up to 2.40 GHz

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Essentials

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Product Collection	Intel® Atom™ Processor X Series
Code Name	Products formerly Cherry Trail
Vertical Segment	Mobile
Processor Number	x7-Z8700
Status	Launched
Launch Date ?	Q1'15
Lithography ?	14 nm
Recommended Customer Price ?	

Performance

# of Cores ?	4
# of Threads ?	4
Processor Base Frequency ?	1.60 GHz
Burst Frequency ?	2.40 GHz
Cache ?	2 MB
Scenario Design Power (SDP) ?	2 W

Supplemental Information




Embedded Options Available ?	No
Datasheet	View now
Product Brief	View now

Memory Specifications



Max Memory Size (dependent on memory type) ?	8 GB
Memory Types ?	LPDDR3 1600
Max # of Memory Channels ?	2
Max Memory Bandwidth ?	25.6 GB/s

Processor Graphics


Graphics Base Frequency ?	200 MHz
Graphics Burst Frequency	600 MHz
Graphics Video Max Memory ?	8 GB

Execution Units 	16
Max Resolution (HDMI 1.4)† 	3840x2160
Max Resolution (eDP - Integrated Flat Panel)‡ 	2560x1600
# of Displays Supported ‡	3



Expansion Options

PCI Express Revision 	2.0
PCI Express Configurations ‡ 	2x1, 1x2
Max # of PCI Express Lanes 	2

I/O Specifications

# of USB Ports	3
USB Revision 	3.0

Package Specifications

Sockets Supported 	UTFCBGA1380
T _{JUNCTION} 	90°C
Package Size	17mm x 17mm

Advanced Technologies

Secure Boot 	Yes
Intel® Virtualization Technology (VT-x) ‡ 	Yes
Intel® 64 ‡ 	Yes
Instruction Set 	64-bit
Intel® Identity Protection Technology ‡ 	Yes

Security & Reliability

Intel® AES New Instructions 	Yes
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More support options for Intel Atom® x7-Z8700 Processor (2M Cache, up to 2.40 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.

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.

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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