



Intel® Celeron® Processor N3350

2M Cache, up to 2.4 GHz

Specifications

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Essentials

Product Collection	Intel® Celeron® Processor N Series
Code Name	Products formerly Apollo Lake
Vertical Segment	Mobile
Processor Number	N3350
Status	Launched
Launch Date	Q3'16
Lithography	14 nm
Recommended Customer Price	\$107.00
Use Conditions	PC/Client/Tablet

Performance

# of Cores	2
# of Threads	2
Processor Base Frequency	1.10 GHz
Burst Frequency	2.40 GHz
Cache	2 MB L2
TDP	6 W
Scenario Design Power (SDP)	4 W

Supplemental Information

Embedded Options Available	Yes
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Datasheet	View now
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Memory Specifications

Max Memory Size (dependent on memory type)	8 GB
Memory Types	DDR3L/LPDDR3 up to 1866 MT/s; LPDDR4 up to 2400 MT/s
Max # of Memory Channels	2
ECC Memory Supported ‡	No

Processor Graphics

Processor Graphics ‡	Intel® HD Graphics 500
Graphics Base Frequency	200 MHz
Graphics Burst Frequency	650 MHz
Graphics Video Max Memory	8 GB
Graphics Output	eDP/DP/HDMI/MIPI-DSI
Execution Units	12
DirectX* Support	Yes
OpenGL* Support	Yes
Intel® Quick Sync Video	Yes
Intel® InTru™ 3D Technology	No
Intel® Clear Video HD Technology	Yes
Intel® Clear Video Technology	Yes
# of Displays Supported ‡	3
Device ID	0x5A85

Expansion Options

PCI Express Revision	2.0
PCI Express Configurations ‡	1x4 + 1x2 or 4x1 or 2x1+1x2 + 1x2
Max # of PCI Express Lanes	6

I/O Specifications

# of USB Ports	8
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USB Revision	2.0/3.0
Total # of SATA Ports	2
Integrated LAN	No
General Purpose IO	Yes
UART	Yes
Max # of SATA 6.0 Gb/s Ports	2

Package Specifications

Sockets Supported	FCBGA1296
Max CPU Configuration	1
T _{JUNCTION}	105°C
Package Size	24mm x 31mm

Advanced Technologies

Intel® Turbo Boost Technology ‡	No
Intel® vPro™ Platform Eligibility ‡	No
Secure Boot	Yes
Intel® Hyper-Threading Technology ‡	No
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
Idle States	Yes
Enhanced Intel SpeedStep® Technology	Yes
Thermal Monitoring Technologies	Yes
Intel® HD Audio Technology	Yes
Intel® Identity Protection Technology ‡	Yes
Intel® Rapid Storage Technology	No

Intel® Smart Connect Technology	No
Intel® Stable Image Platform Program (SIPP)	No
Intel® Smart Response Technology	No
Intel® Virtualization Technology for Itanium (VT-i)	No

Security & Reliability

Intel® AES New Instructions	Yes
Secure Key	Yes
Intel® Memory Protection Extensions (Intel® MPX)	Yes
Intel® Trusted Execution Technology ‡	No
Execute Disable Bit ‡	Yes
Anti-Theft Technology	No
Intel® OS Guard	Yes

Product Images

Ordering and Compliance

Downloads and Software

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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.