



Intel® Pentium® Processor N4200

2M Cache, up to 2.5 GHz

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Essentials

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Product Collection	Intel® Pentium® Processor N Series
Code Name	Products formerly Apollo Lake
Vertical Segment	Mobile
Processor Number	N4200
Status	Launched
Launch Date ?	Q3'16
Lithography ?	14 nm
Recommended Customer Price ?	
Use Conditions ?	PC/Client/Tablet

Performance

# of Cores ?	4
# of Threads ?	4
Processor Base Frequency ?	1.10 GHz
Burst Frequency ?	2.50 GHz
Cache ?	2 MB L2
TDP ?	6 W
Scenario Design Power (SDP) ?	4 W

Supplemental Information

Embedded Options Available ?	Yes
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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 505
Graphics Base Frequency ?	200 MHz

Graphics Burst Frequency	750 MHz
Graphics Video Max Memory ?	8 GB
Graphics Output ?	eDP/DP/HDMI/MIPI-DSI
Execution Units ?	18
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	0x5A84

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
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
Low Halogen Options Available	See MDDS

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

More support options for Intel® Pentium® Processor N4200 (2M Cache, up to 2.5 GHz)



Product Support



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Support Community



Warranty and Replacement



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“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.

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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.



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