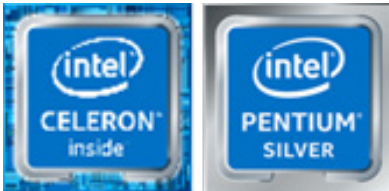


INTEL® PENTIUM® SILVER AND CELERON® PROCESSORS

Great value with improved performance and exciting new user experiences to match people's lifestyle and everyday computing



Entry level PC has never been this good. Now, users can enjoy the great experiences they want from their notebook, convertible, or desktop PC, with the security and connectivity options they need for a protected modern lifestyle. Intel® Pentium® Silver and Celeron® processor family delivers a great balance of performance & battery life at entry level price points for all Windows*, Chrome* and Linux* OS users. The all new Intel® Pentium® Silver and Celeron® processor family includes 4K media support, integrated connectivity up to Gigabit Wi-Fi³, and improvements in security in your choice of platform and OS at a price point for casual users who want rich experiences.

Educators and next generation of student innovators powered with new Intel® Pentium® Silver and Celeron® processors save valuable time by doing everyday school tasks faster. The new N- & J- Series processors provide an optimal learning experience with Gigabit Wi-Fi³ for blazing fast connectivity and LACE (Local Adaptive Contrast Enhancement) display support for viewing in a variety of environments, whether in sun or shade.

ENTRY LEVEL PC GIVES MORE PEOPLE ACCESS TO AFFORDABLE COMPUTING

Intel is innovating with dedicated processors for the entry level PC market to make computing accessible to more people by lowering overall platform cost. Intel® Pentium® Silver and Celeron® processors continue the innovation by bringing features like integrated Gigabit Wi-Fi, 4K display, 4k media support and long battery life to entry level PC.



ENTRY LEVEL PC FOR PRIMARY AND SECONDARY EDUCATION

With technology rapidly changing the workplace, more jobs will require technical computer skills in the industry 4.0 revolution. Incorporating PCs in primary and secondary education prepares students for the future as more and more jobs require some programming skills, understanding artificial intelligence, machine learning and operating robots. Connected PCs bring a wealth of information to classrooms and access to a variety of Massively Online Open Courseware for self-paced learning.

- Innovative digital curriculum to make students creative problem solvers
- Curated and personalized learning through a performance evaluation feedback loop
- Collaborate with other students in class and globally
- Classroom PC to Cloud based Learning Management Solution connectivity makes student and school performance tracking instantaneous and easier
- Continued access to digital content at home with access from home PC

Intel® Pentium® Silver and Celeron® processors empower educators and students to finish day-to-day tasks quickly and save valuable time. As compared to the use of a 3-year-old system:

- Teachers and students experience up to 91% faster web browsing⁵
- Students take up to 58% less time to perform spreadsheet calculations like Monte Carlo simulations⁶
- Students take up to 21% less time to finish multimedia tasks⁷
- Gigabit Wi-Fi enables faster downloads in highly dense network area like a classroom
- Seamless sharing and collaborating among students and classroom's monitor



PERFORMANCE IN ENTRY PC SEGMENT

With up to 3.2 GHz burst frequency, the all new Intel® Pentium® Silver and Celeron® processors provide up to 46% better overall system performance¹ compared to a three-year-old system and give the computing power and visual experience users have wanted. With Intel® Pentium® Silver and Celeron® processor platforms, users can enjoy:

- A new level of performance and great battery life for longer active use (~10 hours of active battery life²)
- New improved I/O and memory options for faster data transfer with DDR4 support
- Gigabit Wi-Fi* PC capability for extremely fast networking performance – faster than a wired Gigabit Ethernet connection⁴
- Binge watching movies
- Boost display visibility outdoors in bright sunlight with LACE technology
- Enjoy 4K content on external 4K display or HDTVs
- Favorite movies and videos in UHD (Ultra High Definition) from premier content providers like Netflix* and Sony* with native DRM support
- Capturing and uploading 1080p video for Google Hangouts* and YouTube* with new VP9* and HEVC 10-bit built in CODECs
- Enjoy high definition content on the go with PlayReady* or Widevine*

SECURITY USERS CAN TRUST**

People's online lives are more complicated than ever before, and consumers are demanding increasingly frictionless methods to safeguard identities and data. Consumers want digital experiences that are more secure. With the latest Intel® Pentium Silver® and Celeron® processors, Intel builds security** features directly into the silicon and offers a more secure** experience without sacrificing ease of use.



A DEVICE THAT SUITS PEOPLE'S LIFESTYLE

Intel® Pentium® Silver and Celeron® processors power more types of devices, from notebooks to convertibles to desktops and mini PCs— Support Windows*, Chrome* and Linux* OS—giving people flexibility to choose the best device for their needs, while knowing it will give them the performance, experiences, and security** they want.

People can now select the device that matches their lifestyle – on the go or on the desk – with a wide range of form factors and styles to choose from including new form factors for consumers and education with quiet, fanless designs, and lighter-weight materials and devices.



INTEL® PENTIUM® SILVER AND CELERON® MOBILE PROCESSORS FEATURES AT A GLANCE

FEATURE	INTEL® PENTIUM® SILVER PROCESSOR N5030	INTEL® CELERON® PROCESSOR N4120	INTEL® CELERON® PROCESSOR N4020
Max Processor Frequency	Up to 3.1GHz	Up to 2.6GHz	Up to 2.8GHz
Number of Processors Core/Thread	4/4	4/4	2/2
Cache Size (MB)	4MB	4MB	4MB
Number of Memory Channels	2	2	2
Memory Type	DDR4-2400, LPDDR4-2400	DDR4-2400, LPDDR4-2400	DDR4-2400, LPDDR4-2400
Graphics Dynamic Frequency (GHz)	Up to 750MHz	Up to 700MHz	Up to 650MHz
Intel UHD Graphics	Intel® UHD Graphics 605	Intel® UHD Graphics 600	Intel® UHD Graphics 600

Product Brief
Intel® Pentium® Silver and Celeron® Processors

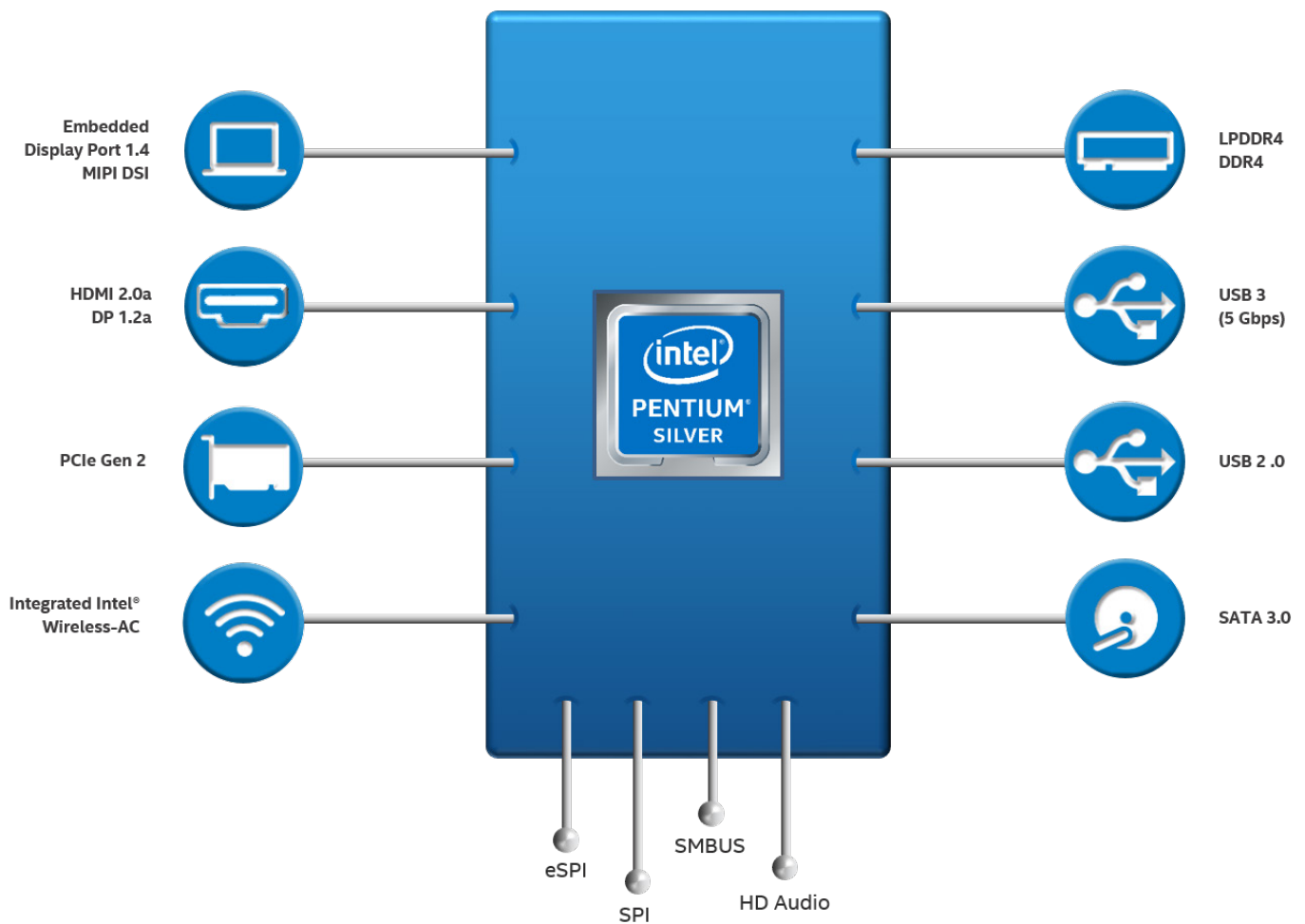
INTEL® PENTIUM® SILVER AND CELERON® DESKTOP PROCESSORS FEATURES AT A GLANCE

FEATURE	INTEL® PENTIUM® SILVER PROCESSOR J5040	INTEL® CELERON® PROCESSOR J4125	INTEL® CELERON® PROCESSOR J4025
Max Processor Frequency	Up to 3.2GHz	Up to 2.7GHz	Up to 2.9GHz
Number of Processors Core/Thread	4/4	4/4	2/2
Cache Size (MB)	4MB	4MB	4MB
Number of Memory Channels	2	2	2
Memory Type	DDR4-2400, LPDDR4-2400	DDR4-2400, LPDDR4-2400	DDR4-2400, LPDDR4-2400
Graphics Dynamic Frequency (GHz)	Up to 800MHz	Up to 750MHz	Up to 700MHz
Intel UHD Graphics	Intel® UHD Graphics 605	Intel® UHD Graphics 600	Intel® UHD Graphics 600



**DESKTOP
PROCESSORS
FEATURE
AT A GLANCE**

INTEL® PENTIUM® SILVER AND CELERON® PROCESSORS



Product Brief

Intel® Pentium® Silver and Celeron® Processors

LEGAL NOTICES AND DISCLOSURES

Intel technologies' features and benefits depend on system configuration and may require enabled hardware, software or service activation. Performance varies depending on system configuration. No computer system can be absolutely secure. Check with your system manufacturer or retailer or learn more at intel.com. Altering clock frequency or voltage may damage or reduce the useful life of the processor and other system components and may reduce system stability and performance. Product warranties may not apply if the processor is operated beyond its specifications. Check with the manufacturers of system and components for additional details.

Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. Go to: http://www.intel.com/products/processor_number/

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1. As measured by SYSmark* 2014 SE on Intel® Pentium® Silver Processor J5040 vs. Intel® Pentium® Processor J4205: up to 46% better performance
2. As projected by 1080p Video Playback on Intel® Pentium® Silver Processor N5030, PL1=6W TDP, 4C/4T, up to 3.1GHz, Memory: 2x4GB DDR4 2400, Storage: Intel SSD, OS: Windows* 10 19H1 Battery: 35Whr, 12.5", 1920x1080
3. 802.11ac 160MHz provides 1.73Gbps maximum throughput, 2X faster than standard 802.11ac 2x2 80MHz (867Mbps) and nearly 12x faster than baseline 1x1 BGN (150Mbps) Wi-Fi used in today's PCs. To achieve Gigabit wireless speeds the network requires a wireless router/access point that supports 160MHz channel
4. Under industry recognized ideal conditions for both Wi-Fi and wired connections
5. 6. 7. As measured by Speedometer* 2.0, Google* Sheets workload using Monte Carlo & Adobe* Lightroom workload on Intel® Pentium® Silver Processor N5030 vs. Intel® Pentium® Processor N4200: up to 91%, 58% & 21.7% better performance respectively

TESTING INFORMATION:

Software and workloads used in performance tests may have been optimized for performance only on Intel microprocessors. Performance tests, such as SYSmark and MobileMark, are measured using specific computer systems, components, software, operations and functions. Any change to any of those factors may cause the results to vary. You should consult other information and performance tests to assist you in fully evaluating your contemplated purchases, including the performance of that product when combined with other products. For more complete information about performance and benchmark results, visit <http://www.intel.com/benchmarks>

Results have been estimated based on internal Intel analysis and are provided for informational purposes only. Any difference in system hardware or software design or configuration may affect actual performance.

BENCHMARK INFORMATION

Compute Intensive Application Performance. SPEC* CPU2000/2006 is a benchmark from the SPEC consortium that measures device performance and throughput using compute intensive application subtests. SPECint*_base2000/2006 measures how fast a device completes a single integer compute task. SPECint*_rate_base2000/2006 measures throughput, or how many integer compute tasks a device can accomplish in a given amount of time. OS support: Desktop Windows*, UNIX*/Linux* and Mac* OS.

CONFIGURATIONS ESTIMATED ON:

Mobile

Intel® Pentium® Silver Processor N5030, PL1=6W TDP, 4C/4T, up to 3.1GHz, Memory: 2x4GB DDR4 2400, Storage: Intel SSD, OS: Windows* 10 19H1
Intel® Pentium® Processor N4200, PL1=6W TDP, 4C/4T, up to 2.5GHz, Memory: 2x4GB DDR3L-1866, Storage: Intel SSD, OS: Windows* 10 19H1

Desktop

Intel® Pentium® Silver Processor J5040, PL1=10W TDP, 4C/4T, up to 3.2GHz, Memory: 2x4GB DDR4 2400, Storage: Intel SSD, OS: Windows* 10 19H1
Intel® Pentium® Processor J4205, PL1=10W TDP, 4C/4T, up to 2.6GHz, Memory: 2x4GB DDR3L-1866, Storage: Intel SSD, OS: Windows* 10 19H1

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