

Is Intel Celeron chip good? Which laptop has Intel Celeron?

Intel Celeron is a basic level processor chip from the famous American brand Intel. Is Intel Celeron chip good? Which laptop has Intel Celeron? Watch now!

With cheap laptops for students and office workers, the machine configuration is often compatible with the Intel Celeron chip line to help quickly respond to basic tasks such as editing, sending gmail or surfing the web. So, what specifically is the Intel Celeron chip line? Should I use it or not? If so, which laptop should I choose with this chip? Join TipsMake to find out the specific answer through the following article.

What is Intel Celeron?

Intel Celeron is one of the basic level processor chips produced by the famous American brand Intel. The reason it is called a basic chip is because it only supports users in handling simple tasks such as email, accessing the internet and creating documents.

Picture 1 of Is Intel Celeron chip good? Which laptop has Intel Celeron?

The Intel Celeron chip line is shortened from the Intel Pentium version with a smaller number of transistors, along with a smaller cache size. The purpose of minimizing production materials for this type of chip is to reduce product costs when distributed to the market to consumers.

In terms of similar chip lines from competing brands, the Intel Celeron line is classified as a low-cost product group, suitable for use on laptops in the mid-range segment.

Intel Celeron CPU lines

On the market today, Intel has launched many Intel Celeron CPU lines with unique features, meeting the needs of different computer users. Below are some Intel Celeron lines that are popular with many users that TipsMake shares with you:

1. **Intel Celeron D chip:** This is a processor line built on the 1-core NetBurst architecture, operating with a base frequency of **3.6GHz** . Laptops equipped with Celeron D chips all use level 2 cache, reaching a maximum of 512KB. Along with that, the operating range of thermal design capacity is in the range of **65 - 86W** .
2. **Intel Celeron M chip:** This is a discrete CPU line that uses 1 core and has a basic operating frequency of **2.267GHz** . Besides, this chip line is built based on level 2 cache architecture, which can integrate up to 1MB. The operating capacity of the thermal design ranges from **5 - 31W** .

3. **Celeron Dual – Core chip:** This is a dual-core chip that uses many different microarchitectures. At the same time, this chip line uses level 2 cache memory reaching a maximum of 4MB and the operating range of thermal design power is from **6 - 68.4W**.
4. **Mobile Celeron:** This is the Intel Celeron line containing about 103 CPU models with the number of cores from 1 to 4 cores. Uses a level 2 cache architecture containing up to 4MB for end cache. At the same time, the operating range of thermal design capacity reaches from **4 - 35W**.

Processor chip set	Number of cores	Base frequency GHz	Caching	Thermal design capacity – TDP
Intel Celeron D	first	3.6 GHz	Level 2 maxes out at 512KB	65 – 86W
Celeron M	first	2.267GHz	Level 2 maxes out at 1MB	5 – 31W
Celeron Dual-Core	Dual core	3.0GHz	Level 2 maxes out at 4MB	6 – 68.4W
Mobile Celeron	1 to 4 cores	2.5GHz	Level 2 maxes out at 4MB	4 – 35W

Intel Celeron performance

As a shortened chip line from the Intel Pentium version, Intel Celeron is aimed at primary users: students and office workers with basic learning and working tasks such as drafting, accessing the internet and sending messages. gmail.

Currently, the Intel Celeron line has been upgraded by the manufacturer to a new generation - **Haswell** with the orientation of targeting users on laptops in the low-cost segment. Although distributed at a low price, this chip line still ensures stable performance. Users can comfortably perform basic daily tasks, or entertain in Full HD quality quickly and smoothly.

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For users who need to perform more advanced and specific tasks such as playing games or using graphic design software, TipsMake recommends choosing higher-end processor chips.

In addition, **Haswell generation Intel Celeron Chips** also apply many familiar technologies often equipped on Intel Core i CPU lines. However, this chip line is currently not equipped with hyper-threading or Turbo mode, but only uses 4-core architecture. This is also the reason why Intel Celeron Chips have lower performance levels than other processor chips of the same company.

So even though it's the same manufacturer but with lower performance, should users choose Celeron Chip to equip their computer devices? Find out the answer in the following content.

Should I use Celeron chip?

According to assessments from technology experts, in terms of product price alone, the low-cost Intel Celeron Chip is a suitable choice for users. This is a line of processor chips equipped with dual cores and small cache

memory with an average clock speed.

Computers that integrate this chip line contain technical specifications that can only meet basic office tasks and perform few commands at the same time.

Picture 3 of Is Intel Celeron chip good? Which laptop has Intel Celeron?

On the other hand, as TipsMake mentioned above, the Intel Celeron chip is only suitable for handling basic daily work tasks. Therefore, if the user is a designer who needs a high-performance computer configuration and strong graphics to meet the task, he or she should choose a device with a higher configuration.

In addition, with the advantage of low price, most Intel Celeron CPU lines are great choices for small and medium businesses that want to build office PCs or laptops for employees to use for personal purposes. job.

Where does Intel Celeron stand in Intel CPUs?

On the current market, there are many laptop lines equipped with processor chips from the manufacturer Intel with performance levels ranging from low to high-end. Compared with other Intel CPU lines, the Intel Celeron series has performance within the range of:

1. **Intel Xeon CPU:** This processor chip set is aimed at businesses that use workstations for management or personal use that require highly stable performance.
2. **Intel Core i:** This is a processor line that is extremely familiar to computer users on the market. Currently, Intel Core i is widely distributed in 4 product lines containing increasing performance levels from Core i3, core i5, core i7 and core 9.
3. **Intel Pentium CPU:** For Pentium series processor chips, this chip line has a price range and performance that is commensurate with each other, very suitable for equipment on some types of mainboards such as Pentium III, Pentium IV,.
4. **Intel Celeron CPU:** Compared with Intel Pentium, Intel Celeron CPU does not have too many differences. This chip line has the same parameters regarding core count, processing clock and the ability to perform common tasks.

In short, considering Intel's processor lines, the Intel Celeron line is in a good range with enough performance for users to perform basic office tasks such as editing, emailing or looking up data. on the Internet.

Picture 4 of Is Intel Celeron chip good? Which laptop has Intel Celeron?

Compare the differences between Intel Celeron and Intel Pentium

As mentioned, between the two **CPU lines, Intel Celeron and Intel Pentium**, there are many similarities in many aspects of specifications. However, because the Intel Celeron CPU has a more shortened structure than the Intel Pentium line, there are still some unique differences.

To make it easier for users to identify, below TipsMake will compare the differences between Intel Celeron and Intel Pentium IV - the latest CPU version from Intel based on 3 important criteria:

1. Clock speed

The first difference is in clock speed. It can be seen that the Intel Pentium chip has a **higher clock speed than** the Celeron chip. Specifically, compared to Celeron, the average speed of Pentium IV is up to **60%** faster . **This explains that, the performance of Pentium IV when processing graphics or playing games or extracting videos will be 1.5 - 2 times** faster .

Furthermore, in terms of bus speed performance, the Intel Pentium chip line also has a maximum bus speed about 30% faster.

Picture 5 of Is Intel Celeron chip good? Which laptop has Intel Celeron?

2. Cache memory

The next difference is about caching. The Intel Celeron series has a smaller maximum cache capacity than the Intel Pentium IV series. Specifically, the capacity level on Celeron CPU only reaches a maximum of **128KB** , while on Pentium it is **512KB (4 times higher)** .

With this large difference in storage capacity, the performance speed between the two chip lines has changed relatively large.

Picture 6 of Is Intel Celeron chip good? Which laptop has Intel Celeron?

3. Comparison chart

In addition, for users to easily visualize the differences and similarities between Intel Celeron and Intel Pentium CPU chips. Please continue with TipsMake to refer to the performance comparison table between the two chip sets based on the technical specifications below:

Performance	Intel Pentium	Intel Pentium
Number of cores	4	2
Number of streams	4	2
Processor base frequency	1.10GHz	1.10GHz
Acceleration frequency	2.70GHz	2.60GHz
Caching	4MB	4MB
TDP – Thermal design capacity	6W	6W
Scenario design capacity – SDP	4.8W	4.8W

Through the parameters displayed on the table between the two chip lines, it can be seen that the Intel Celeron CPU has a stable level of performance, suitable for use on laptops or PCs with low average configuration, meeting Quickly master basic task requirements in study and office work.

Besides, this processor is also suitable for application in data lookup machines located in commercial centers or banks.

Which laptop has Intel Celeron?

Laptop models with low-average configurations in the low-cost or mid-range segment are often equipped with Intel Celeron chips. For users whose main purpose is to study or work and need basic tasks to be performed quickly, the laptop models TipsMake suggests below are very suitable for you to choose:

1. CHUWI LarkBook X Laptop

CHUWI LarkBook X laptop is a laptop line with a thin and light design, fully equipped with features to meet the basic tasks of students and office workers.

This laptop is made from highly durable metal material, the outer shell is covered with gray paint, giving it a youthful and dynamic feel. The device has a compact design with a light weight of only 1.4kg and a thickness of 20.6mm and a 14-inch display screen, making it more convenient for users to carry when traveling.

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In addition, the screen uses multi-touch technology to allow multiple operations to be performed at the same time. In terms of configuration, the device uses 8GB RAM, 256GB SSD hard drive equipped with Intel Celeron N5100 processor chip and integrated Intel UHD Graphics card to meet maximum basic learning, working or entertainment tasks. comfortable and fast way for users.

In addition to handling basic office tasks, the processor chip used also allows users to customize images or perform basic design operations on Canva and Figma.

In particular, the CHUWI LarkBook laptop also supports keyboard backlighting and all popular connection ports such as USB Type C, USB 3.0, micro SD and 3.5mm headphone jack.

Specifications:

Product's name	CHUWI LarkBook X
CPU	Intel Celeron – N5100
RAM	8 GB
Hard Drive	SSD 256GB M.2 SATA III (maximum upgrade 1TB)
Screen	14 inches
Resolution	2.2K (2240 ??x 1400)
Screen technology	IPS panel
Graphic card	Integrated card – Intel UHD Graphics
Material	Metal case
Size	310 x 229.5 x 20.6 mm
Mass	1.4kg
The battery	Li Ion 38Wh
Operating system	Windows 10 Home SL

2. CHUWI GemiBook Laptop

CHUWI GemiBook laptop is a laptop line in the youth price segment under 10 million VND but possesses all the performance criteria and suitable packaging design for students to use.

The computer model has a design with a minimalist black tone but is no less luxurious. The machine is made from a highly durable metal shell, along with a compact thickness and weight of only 1.34kg, helping users easily fold it into a backpack when traveling.

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In addition, the CHUWI GemiBook computer features an Intel Celeron J4124 chip processor combined with an integrated Intel UHD Graphics 600 graphics card that fully meets the basic needs of office tasks as well as editing. , surfing the web for entertainment. In addition, equipped with 2 high-performance cores to help improve performance, users can operate stably in the game League of Legends.

Furthermore, this laptop model has **8GB** of DDR4 generation RAM memory, allowing users to multitask smoothly and quickly. At the same time, the hard drive holds up to **256GB** and the SSD card provides enough storage space with fast data processing speed.

Specifications:

Product's name	CHUWI GemiBook
CPU	Intel Celeron – J4125
RAM	8 GB
Hard Drive	SSD 256GB M.2 SATA III
Screen	13 inches
Resolution	2K (2160 x 1440)
Screen technology	IPS panel, screen with thin bezels
Graphic card	Integrated card – Intel UHD Graphics 600
Material	Metal case
Size	289 x 219 x 17.75 mm
Mass	1.34kg
The battery	38Wh
Operating system	Windows 10 Home SL

3. Itel ABLE 1S Laptop (71006300027)

The itel ABLE 1S laptop (71006300027) has an elegant, modern design made from black plastic shell material. The device has a light weight of only 1.4kg and a thickness of 19.9mm, helping users carry it quickly and easily.

In addition, the device's compact 14-inch screen has HD resolution (1366 x 768) and screen brightness of 220 nits, providing clear display images and suitable light and dark contrast. reason, providing a great entertainment experience.

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At the same time, the computer also integrates **ImerSound** sound technology with good resonance to help you immerse yourself in a lively space.

In terms of configuration, the itel ABLE 1S laptop (710006300027) is equipped with an **Intel Celeron N4020** chip with a base clock speed of 1.1GHz and reaches 2.8GHz in Turbo Boost mode, providing smooth processing speed for Microsoft tasks. .

In addition, the device is also equipped with an integrated Intel UHD Graphics 600 graphics card for enhanced image display with clearer, smoother frames during the entertainment experience of watching movies or playing simple games.

Specifications:

Product's name	itel ABLE 1S (710006300027)
CPU	Intel Celeron – N4020
RAM	4 GB
Hard Drive	256GB M.2 SATA III SSD (can be removed to install another stick containing up to 1TB), supports 1 SATA HDD slot (upgradable to 1TB)
Screen	14 inches
Resolution	HD (1366 x 768)
Screen technology	220 nits
Audio technology	ImerSound
Graphic card	Integrated card – Intel UHD Graphics 600
Material	Plastic cover
Size	336.2 x 223 x 19.9 mm
Mass	1.4kg
The battery	2 – Li ion cell 30Wh
Operating system	Windows 11 Home SL

4. Acer TravelMate B3 TMB311 31 C2HB Laptop (NX.VNFSV.006)

The Acer TravelMate B3 TMB311 C2HB laptop model stands out with its compact, sturdy design at an affordable price, making it the perfect choice for students.

Similar to the laptop lines mentioned above, the Acer TravelMate B3 TMB311 C2HB laptop is equipped with **Intel Celeron N4020 chip and integrated Intel UHD Graphics 600** graphics card to fully meet the basic learning and entertainment needs of users. use.

Picture 10 of Is Intel Celeron chip good? Which laptop has Intel Celeron?

In addition, this laptop line also possesses 1-slot DDR4 standard 4GB RAM memory, allowing users to multitask at the same time without fear of freezing or freezing.

In addition, the Acer TravelMate B3 TMB311 C2HB computer is also equipped with a **128 GB M2 PCLiE SSD** hard drive to ensure processing speed and stable performance.

In particular, the design of this laptop model has a compact size with the display screen being only 11.6 inches. At the same time, integrating exclusive Acer ComfyView and TFT technology has the ability to reproduce colors with good contrast and effective anti-glare when used in outdoor lighting conditions.

With a thin screen and LED Backlit light technology, it limits heat radiating to the outside, helping to save energy consumption for users. Not only that, the computer helps enhance the user experience with MIL STD 810G military standard certification with the ability to withstand strong environmental impacts such as temperature, salt mist, shock or dust. .affects the device.

Specifications:

Product's name	Acer TravelMate B3 TMB311 C2HB
CPU	Intel Celeron – N4020
RAM	4 GB
Hard Drive	128GB M2 PCIe SSD
Screen	11.6 inches
Resolution	HD (1366 x 768)
Screen technology	TFT, LED Backlit, Acer ComfyView
Audio technology	Acer TrueHarmony
Other function	MIL STD 810G military standard durability
Graphic card	Integrated card – Intel UHD Graphics 600
Material	Plastic cover
Size	295 x 215 x 20.99 mm
Mass	1.4kg
The battery	3 – Li ion cell 48Wh
Operating system	Windows 11 Home SL

5. CHUWI HeroBook Pro Laptop

CHUWI HeroBook Pro N4020 Laptop is a line of computers with a thin and light exterior design and the material used is hard plastic, helping users move freely without fear of damage when subjected to light collisions. The screen is 14.1 inches in size, Full HD resolution (1920 x 1080) with IPS panel and 100% sRGB screen technology, providing a vivid and realistic visual experience.

Picture 11 of Is Intel Celeron chip good? Which laptop has Intel Celeron?

In addition, CHUWI HeroBook Pro N4020 laptop is also equipped with 8 GB RAM and 256GB SSD hard drive, allowing users to improve working efficiency with the ability to perform multitasking operations.

Specifications:

Product's name	CHUWI HeroBook Pro N4020
CPU	Intel Celeron – N4020
RAM	8 GB

Product's name	CHUWI HeroBook Pro N4020
Hard Drive	256GB SSD
Screen	14.1 inches
Resolution	Full HD (1920 x 1080)
Screen technology	IPS technology, 100% sRGB
Audio technology	ES8336
Graphic card	Integrated card – Intel UHD Graphics 600
Material	Plastic cover
Size	332 x 214 x 21.3 mm
Mass	1.39kg
The battery	Li ion 38Wh
Operating system	Windows 10 Home SL

Epilogue

The Intel Celeron chip line has stable performance, helping users perform basic office tasks with fast processing speed. Most Intel Celeron computers have thin and light designs, mid-range configurations and are in the low price segment. Hope this article provides you with useful information. Thank you for following the article.

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