

What is Intel Iris Xe Graphics? What stands out?

Intel Iris Xe Graphics is an integrated graphics card (or onboard graphics card) from Intel, designed based on the latest 11th generation Intel chip.

Most recently, Intel has launched a line of computers with integrated graphics cards - Intel Iris Xe Graphics. This is a card line that uses the latest 11th generation Intel chip with many outstanding features that it brings to users. So, what specifically is the Intel Iris Xe Graphics Card? What outstanding advantages does this type of integrated card have compared to previous generations? Let's learn in detail with TipsMake through the following article.

What is Intel Iris Xe Graphics?

Intel Iris Xe Graphics is an integrated graphics card (or onboard graphics card) from Intel, designed based on the latest 11th generation Intel chip. Although it is an onboard graphics card, this card has many superior features than many integrated graphics cards on the market.

Picture 1 of What is Intel Iris Xe Graphics? What stands out?

Specifically, it has good graphics processing performance, clear images with a resolution of up to 1080p and a frequency of 60 FPS. However, the limitation is that Intel Iris Xe Graphics is not a widely used card on the market. Currently only equipped on some laptop lines using 11th generation Core i5 or Core i7 CPUs.

Advantages and disadvantages of Intel Iris Xe Graphics Card

Compared to other integrated graphics cards on the market, the Intel Iris Xe Graphics card is an integrated card with the latest 11th generation Intel chip technology. Thanks to that, giving users a superior experience such as:

1. Delivers a novel visual experience through the integrated and switching graphics processor. Viewers can immerse themselves in the unique gaming world thanks to high resolution up to **1080p and 60 FPS** frames per second .
2. Enjoy movies with sharp and attractive display quality thanks to technology that supports images up to **8K** , plus **4K HDR** that allows displaying 4 screens at the same time.
3. Supports additional features so users can design and create large, sophisticated data files with the ability to export data up to 4K quality quickly and easily.
4. **Optimize the** computer's power consumption, helping users have longer usage time and be able to perform more multitasking tasks.
5. Equipped with **Day Zero Driver** , capable of preventing attacks from hackers aiming to find intrusion vulnerabilities. This driver is specialized by Intel in newly released games on the market with the purpose of optimizing compatibility and ability to work on Iris Xe Graphics cards.

6. Supports the **Adaptive Sync** feature to eliminate screen tearing, helping users have a smoother entertainment experience.

Picture 2 of What is Intel Iris Xe Graphics? What stands out?

The difference Intel Iris Xe Graphics brings

The Intel Iris Xe Graphics integrated card was born, providing users with many extremely useful advanced features. Ensuring users have better performance and experience speed, even when working with more workload.

This result is thanks to Intel's successful application of silicon architecture combined with software optimization to further improve CPU performance in gaming tasks. At the same time, it optimizes artificial intelligence tasks as well as enhances sharing and streaming encryption.

Differences between integrated graphics on 10th and 11th generation Intel CPUs

As the latest generation of Intel chips upgraded from generation 10, this generation 11 integrated graphics card has new and more unique features than the old version such as:

| Comparison criteria | Intel 10th generation CPU | Intel 11th generation CPU |
|---|--|--|
| Version | Comet Lake | Rocket Lake |
| Generational architecture | Sunny Cove Architecture | Willow Cove Architecture |
| Operational performance | AI processing speed is 2.5 times faster than the 9th generation. | This speed has been increased 2.7 times compared to generation 10, and is also faster than competitors. |
| Clock and multi-core processing capabilities | The single-core clock speed of the 10th generation Intel CPU is improved compared to the 9th generation. | The single-core clock speed of the 11th generation Intel CPU has improved compared to the 10th generation. |
| Integrated Graphics – Gaming Capabilities | UHD graphics chip. | Intel Iris Xe Graphics. |
| Other included features | Supports ThunderBolt 3 interface. | Supports ThunderBolt 4 interface. |

Is Intel Iris Xe Graphics superior to discrete cards?

The Intel Iris Xe Graphics integrated graphics card has a frame rate per second of 60FPS. Compared to discrete graphics cards such as the GeForce MX350 GPU, the index is at the same level, even slightly better in some cases. game title.

Specifically, as shown in the chart below, the frames per second index displayed between a laptop with an **Intel Core i7 - 1185G7** chip using an Intel Xe Graphics graphics card and a laptop using an NVIDIA MX350 discrete card when playing some games. Famous games like CS:GO, GTA, PUBG.

Picture 3 of What is Intel Iris Xe Graphics? What stands out?

With this improvement, the Intel Iris Xe Graphics card line gives users higher processing speed and performance even when workloads increase. This result is possible thanks to Intel's integration of silicon architecture and software. This increases CPU performance during gaming, improves AI efficiency during content production, and encodes live streams efficiently.

How to tell if a laptop has an Intel Iris Xe Graphics card?

On the market today, many new laptop lines have appeared with manufacturers integrating Intel Iris Xe Graphics graphics cards on the device. During the research process, users will be consulted or identified through information described on the product.

Picture 4 of What is Intel Iris Xe Graphics? What stands out?

Besides, users can also identify whether the laptop uses an Intel Iris Xe Graphics card or not by checking what CPU code the laptop is currently using and making comparisons.

If it is an 11th generation Intel Tiger Lake CPU with core i5 or higher, it will be integrated with iGPU Iris Xe. To help users easily check through the general information table that TipsMake shares below:

| Product | Graphics | Cores/Threads | Base Frequency (GHz) | Maximum Boost Frequency (GHz) | Power (watts) |
|-----------------------|-----------------|----------------------|-----------------------------|--------------------------------------|----------------------|
| Core i7 1185G7 | Iris Xe | 4/8 | 3 | 4.8 | 12 to 28 |
| Core i7 1165G7 | Iris Xe | 4/8 | 2.8 | 4.7 | 12 to 28 |
| Core i7 1160G7 | Iris Xe | 4/8 | 1.2 | 4.4 | 7 to 15 |
| Core i5 1135G7 | Iris Xe | 4/8 | 2.4 | 4.2 | 12 to 28 |
| Core i5 1130G7 | Iris Xe | 4/8 | 1.1 | 4 | 7 to 15 |
| Core i3 1125G4 | UHD Graphics | 4/8 | 2 | 3.7 | 12 to 28 |
| Core i3 1120G4 | UHD Graphics | 4/8 | 1.1 | 3.5 | 7 to 15 |
| Core i3 1115G4 | UHD Graphics | 2/4 | 3 | 4.1 | 12 to 28 |
| Core i3 1110G4 | UHD Graphics | 2/4 | 1.8 | 3.9 | 7 to 15 |

Epilogue

With newly upgraded features from the new 11th generation Intel chip line - Intel Iris Xe Graphics integrated graphics card is capable of processing sharper quality images superior to many other competing brands on the market. With computer equipment using this type of card, it will definitely bring the best experience to users. Thank you for following the article.

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