

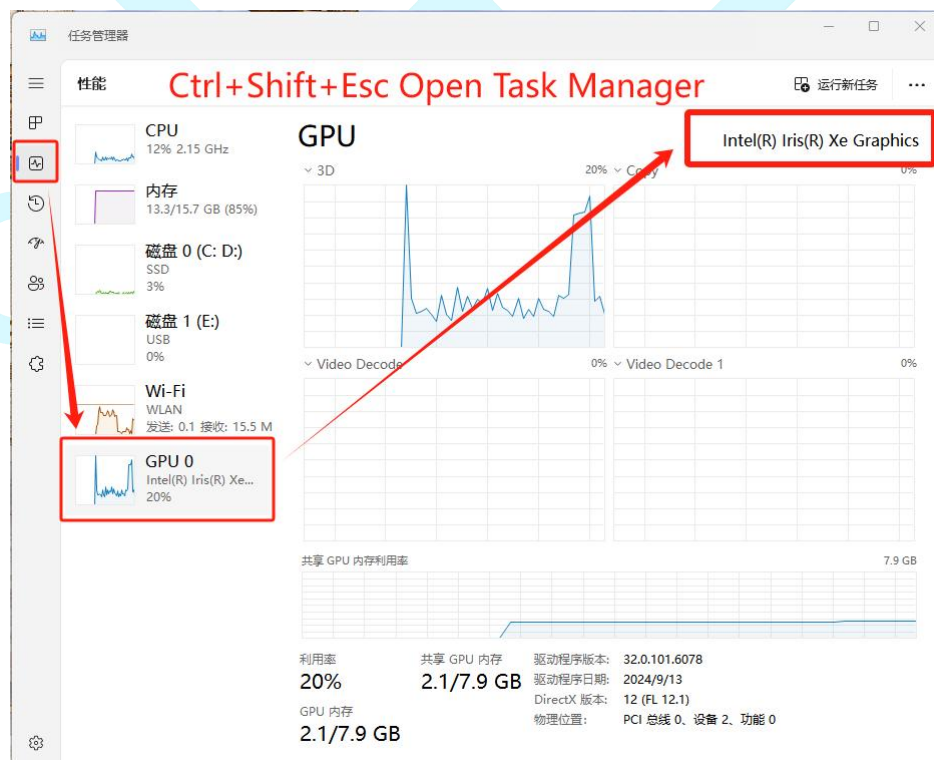
What graphics card does my computer use?

Most of GEEKOM's products currently use integrated graphics cards, and only MEGAMINI G1 includes a discrete graphics card.

1. View GPU model

a) Use Task Manager (for Windows 10 and Windows 11 users)

- i. shortcut key: Ctrl + Shift + Esc
- ii. Or right-click the taskbar and select **Task Manager**.



b) Use system settings (for Windows 10 and Windows 11 users)

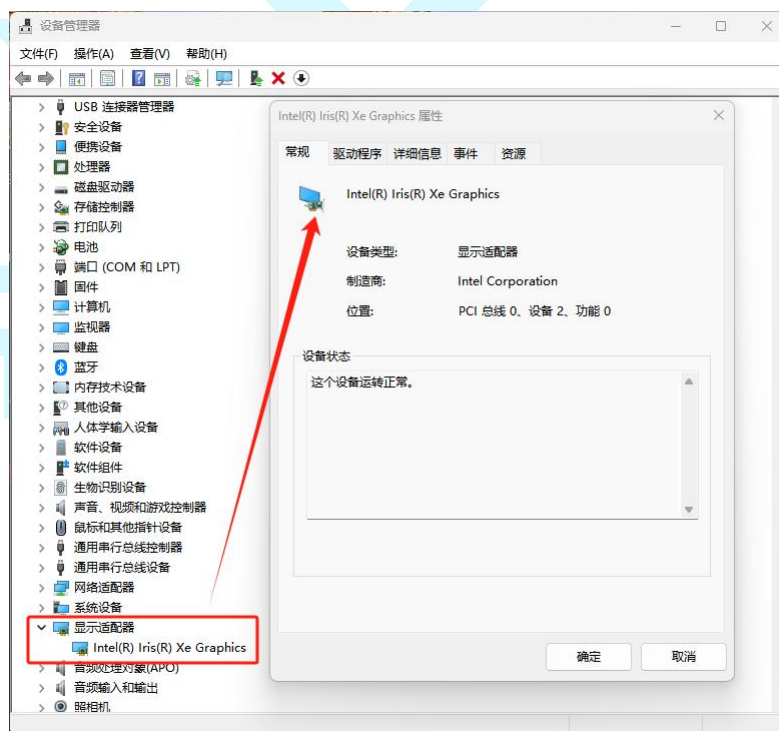
- i. **Open Settings:** Press Win + I to open Settings, or select Settings from the Start menu.
- ii. **Enter display settings:** Select **System** > **Display**, slide to the bottom, and click **Advanced display settings**.

- iii. **View graphics card information:** In **Display Adapter Properties**, you can see the GPU name and related information.



c) **Check device manager**

- Open Device Manager:** Press Win + X and select **Device Manager**.
- Find the display adapter:** Expand **Display Adapters** to see the name of the graphics card listed there.



2. Integrated graphics card introduction

a) **What is integrated graphics?**

- Integrated Graphics Processing Unit (iGPU) is a graphics card embedded in the CPU or motherboard chipset. Unlike a Dedicated GPU, it does not require additional graphics hardware to provide graphical processing capabilities.

Integrated graphics are generally suited for everyday tasks such as office work, web browsing, and video playback. Due to their low-power design, they are widely used in laptops, compact desktops, and embedded devices.

b) Intel integrated graphics models

- Intel HD Graphics Series: The earliest integrated graphics brand, used in older processors. **Application Platform:** Intel 1st to 7th Generation Core processors.
- Intel UHD Graphics Series: An improved version of HD Graphics, offering higher graphical performance. **Application Platform:** Intel 8th to 10th Generation Core processors.
- Intel Iris Graphics Series : Designed for users with higher performance demands, offering stronger performance than UHD Graphics. **Application Platform:** Primarily used in high-end processors (e.g., i7 and i9 Series).
- Intel Iris Xe Graphics Series: A leap in performance, specifically designed for modern demands. **Application Platform:** Intel 11th Generation Tiger Lake and 12th Generation Alder Lake.
- Intel Arc Graphics Series : The latest generation of integrated graphics. **Application Platform:** Used in Intel 13th Generation and Ultra Series processors.

c) AMD integrated graphics models

- <https://www.amd.com/en/products/specifications/processors.html>

名称	内存类型	内存通道数	系统内存规格	显卡型号	显卡核心数	显卡频率	AMD Ryzen™ AI	盒装产品 ID	Tray 产品 ID
全部		全	全部	全部	全		全部	全	全部
AMD Ryzen™ 9 8945H	FP7r2), LPDDR5X (FP7-FP8)	2		AMD Radeon™ 680M		2800 MHz	支持		100-000001319
AMD Ryzen™ 7 8845H	FP7r2), LPDDR5X (FP7-FP8)	2		AMD Radeon™ 760M		2700 MHz	支持		100-000001322
AMD Ryzen™ 5 8645H	FP7r2), LPDDR5X (FP7-FP8)	2		AMD Radeon™ 780M		2600 MHz	支持		100-000001320
AMD Ryzen™ 9 7940HS	FP7r2), LPDDR5X (FP7-FP8)	2		AMD Radeon™ HD 8210		2800 MHz			100-000000954
AMD Ryzen™ 9 7940H	FP7r2), LPDDR5X (FP7-FP8)	2		AMD Radeon™ HD 8240		2800 MHz	支持		100-000000954
AMD Ryzen™ 7 7840HS	FP7r2), LPDDR5X (FP7-FP8)	2		AMD Radeon™ HD 8240 Graphics		2700 MHz	支持		100-000000955
AMD Ryzen™ 7 7840H	FP7r2), LPDDR5X (FP7-FP8)	2		AMD Radeon™ HD 8280		2700 MHz	支持		100-000000955
AMD Ryzen™ 7 7735HS	LPDDR5	2		AMD Radeon™ HD 8330		2200 MHz			FP7: 100-000000
AMD Ryzen™ 7 7735H	LPDDR5	2		AMD Radeon™ HD 8400		2200 MHz			100-000000985
AMD Ryzen™ 5 7640HS	FP7r2), LPDDR5X (FP7-FP8)	2		AMD Radeon™ HD 8400		2600 MHz			100-000000956
AMD Ryzen™ 5 7640H	FP7r2), LPDDR5X (FP7-FP8)	2		AMD Radeon™ HD 8450G		2600 MHz	支持		100-000000956
AMD Ryzen™ 5 7535HS	LPDDR5	2		AMD Radeon™ R2 Graphics		1900 MHz			FP7: 100-000000
AMD Ryzen™ 5 7535H	LPDDR5	2		AMD Radeon™ R3 Graphics		1900 MHz			100-000000986
7th Gen FX™ 9830P APU		2	最高可达 2400 MT/s	AMD Radeon™ R4 Graphics		900 MHz			FM983PAEY44A
7th Gen FX™ 9800P APU		2	最高可达 1866 MT/s	AMD Radeon™ R5 Graphics		758 MHz			FM980PADY44A
6th Gen FX-8800P APU		2	最高可达 2133 MT/s	AMD Radeon™ R6 Graphics		800 MHz			FM880PAAY43K
FX-7600P with Radeon™ R7 Graphics		2	最高可达 2133 MT/s	AMD Radeon™ R7 Graphics		686 MHz			FM760PDGH44J
FX-7500 with Radeon™ R7 Graphics		2	最高可达 1600 MT/s	R5		553 MHz			FM7500ECH44J
7th Gen A12-9730P APU		2	最高可达 2400 MT/s	R7		900 MHz			AM973PAEY44A
7th Gen A12-9700P APU		2	最高可达 1866 MT/s	Radeon™ R4 Graphics		758 MHz			AM970PADY44A
7th Gen AMD PRO A12-9830B APU		2	最高可达 2400 MT/s	Radeon™ R5 Graphics		900 MHz			AM983BAEY44A
7th Gen AMD PRO A12-9800B APU		2	最高可达 1866 MT/s			758 MHz			AM980BAY44A
6th Gen AMD PRO A12-8830B APU			最高可达 1866 MT/s	R7	6	758 MHz			AM883BAY44A
6th Gen AMD PRO A12-8800B APU	DDR3L	2	最高可达 2133 MT/s	AMD Radeon™ R7 Graphics	8	800 MHz			
7th Gen A10-9630P APU		2	最高可达 2400 MT/s	AMD Radeon™ R5 Graphics	6	800 MHz			AM963PAEY44A

d) View specific graphics card parameters based on CPU model

- View Intel CPU models

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Intel
<https://www.intel.com/products/sku/specifications>

Intel® Core™ i9-13900H Processor

Intel® Core™ i9-13900H Processor (24M Cache, up to 5.40 GHz) quick reference with specifications, features, and technologies.

Essentials

- CPU Specifications
- Supplemental Information
- Memory Specifications
- GPU Specifications**
- Expansion Options
- Package Specifications
- Advanced Technologies
- Security & Reliability

GPU Specifications

GPU Name ¹	Intel® Iris® Xe Graphics eligible
Graphics Max Dynamic Frequency	1.50 GHz
Graphics Output	eDP 1.4b, DP 1.4a, HDMI 2.1
Execution Units	96
Max Resolution (HDMI) ²	4096 x 2304 @ 60Hz
Max Resolution (DP) ²	7680 x 4320 @ 60Hz
Max Resolution (eDP - Integrated Flat Panel) ²	4096 x 2304 @ 120Hz
DirectX® Support	12.1
OpenGL® Support	4.6
OpenCL® Support	3.0
Multi-Format Codec Engines	2
Intel® Quick Sync Video	Yes
# of Displays Supported ¹	4
Device ID	0xA7A0

Expansion Options

ii. View AMD CPU models

Google 8845HS

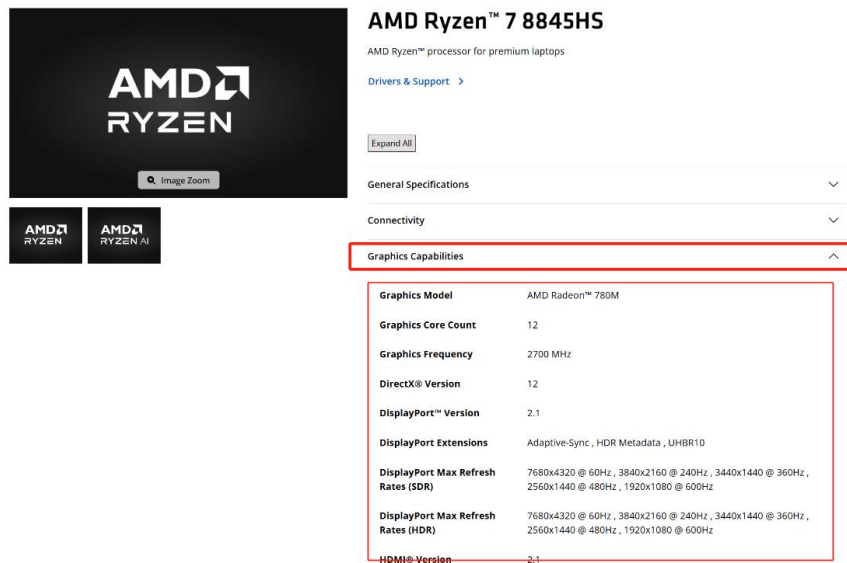
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Review Release Date Benchmark Gaming Laptop Vs M2 Vs 7745HX 相当于 核显

AMD
<https://www.amd.com/laptop/ryzen/8000-series/a...>

AMD Ryzen™ 7 8845HS

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3. The graphics card models currently used by GEEKOM models (specific data are subject to the GEEKOM official website)

model	CPU Name	GPU Name
Air11	N5095	Intel® UHD Graphics 605
Air12 Little	N100	Intel UHD Graphics
Air12	N100	Intel UHD Graphics
IT8	i5-8279U	Intel® Iris Plus Graphics 655
IT11	i7-11390H	Intel® Iris® Xe
IT12	i9-12900H i7-12650H	Intel Iris Xe Graphics for i9 Intel UHD Graphics for i7
IT13	i9-13900H i7-13620H	Intel® Iris® Xe Graphics eligible for i9-13900H Intel® UHD Graphics for i7-13620H
XT12 Pro	i9-12900H i7-12650H	Intel Iris Xe Graphics for i9 Intel UHD Graphics for i7
XT13 Pro	i9-13900H i7-13620H	Intel Iris Xe Graphics eligible for i9-13900H Intel UHD Graphics for i7-13620H
GT12 Pro	i9-12900H i7-12650H	Intel Iris Xe Graphics for i9 Intel UHD Graphics for i7
GT13 Pro	i9-13900H i7-13620H	Intel Iris Xe Graphics eligible for i9-13900H Intel UHD Graphics for i7-13620H

GT1 Mega	Ultra 5 125H Ultra 7 155H Ultra 9 185H	Intel Arc graphics
Fun9	i9-9980HK	Intel® UHD Graphics 630, 350 MHz ~ 1,25 GHz Prize in charge of the graphic cards discretes in a diameter of up to 321 mm, tells the AMD Radeon™ RX 6000 series or the GeForce RTX 30 series
Fun11	i9-11900K	Intel® UHD Graphics for 11th Gen Intel® Processors, 350 MHz ~1.45 GHz Support for up to 321mm discrete graphics cards, such as the AMD Radeon™ RX 6000 Series or GeForce RTX 30 Series.
AS5	AMD Ryzen™ 9 5900HX	Integrated -AMD Radeon™ Vega 8 Graphics
AS6	AMD Ryzen™ 9 6900HX AMD Ryzen™ 7 6800H	Integrated – AMD Radeon™ Graphics 680M
A5	AMD Ryzen™ 7 5800H AMD Ryzen™ 7 5825U	Integrated -AMD Radeon™ Vega 8 Graphics
A7	AMD Ryzen™R9-7940HS	AMD Radeon™ 780M Graphics
A8	AMD Ryzen™R7-8845HS AMD Ryzen™R9-8945HS	AMD Radeon™ 780M Graphics
AE7	AMD Ryzen™R9-7940HS	AMD Radeon™ 780M Graphics
AE8	AMD Ryzen™R7-8845HS AMD Ryzen™R9-8945HS	AMD Radeon™ 780M Graphics
AX7 Pro	AMD Ryzen™R9-7940HS	AMD Radeon™ 780M Graphics
AX8 Pro	AMD Ryzen™R7-8845HS AMD Ryzen™R9-8945HS	AMD Radeon™ 780M Graphics

Thank you for watching. If there are any mistakes, your corrections are welcome.