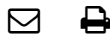




Support

Intel® Arc™ A-Series Graphics – Desktop Quick Start Guide



Print

Documentation

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Thank you for choosing Intel Arc™ graphics. Designed to take your gaming and creation to the next level. Let's Play!

Intel® Arc™ Graphics products leverage the latest in system technologies to deliver a great gaming experience. In order to ensure you get the best gaming experiences from Intel® Arc™ A-Series Desktop Graphics, a supported hardware configuration is required, and there are a few system BIOS settings that are critical to configure.

System BIOS configuration can have a significant impact on your gaming performance

System BIOS are designed to support configurations for a broad range of devices and some default configurations may not be optimal for Intel® Arc™ A-Series Desktop Graphics. Please review the following guide and ensure your system has these options set correctly so you can get the best performance from your Intel® Arc™ Graphics card.

System Requirements

Automatic System Support Detection

Use the Intel® Driver and Support Assistant (Intel DSA) to quickly automatically detect if your system is ready for Intel® Arc™ discrete graphics

Download the Intel® Driver & Support Assistant

Supported Hardware Configurations

Resizable BAR or Smart Access Memory must be enabled for optimal performance in all applications using Intel® Arc™ A-Series Graphics. Platforms supported are listed below. Support for more platforms will be added at a later time.

CPU	Motherboard
<ul style="list-style-type: none"> 13th Gen Intel® Core™ Processors 	<ul style="list-style-type: none"> Intel 700/600 Series motherboard with Resizable BAR support enabled



<ul style="list-style-type: none"> • 12th Gen Intel® Core™ Processors 	<ul style="list-style-type: none"> • Intel 600 Series motherboard with Resizable BAR support enabled
<ul style="list-style-type: none"> • 11th Gen Intel® Core™ Processors • 10th Gen Intel® Core™ Processors 	<ul style="list-style-type: none"> • Intel 500 Series motherboard with Resizable BAR support enabled • Intel 400 Series motherboard with Resizable BAR support enabled
<ul style="list-style-type: none"> • AMD Ryzen™ 7000 Series Processors 	<ul style="list-style-type: none"> • AMD 600 Series motherboard with Smart Access Memory enabled
<ul style="list-style-type: none"> • AMD Ryzen™ 5000 Series Processors • Most AMD Ryzen™ 3000 series Processors (excludes AMD 3000G-series Processors) 	<ul style="list-style-type: none"> • AMD 500 Series motherboard with Smart Access Memory enabled

Additional platforms/motherboards with Resizable BAR / Smart Access Memory enabled may also support Intel® Arc™ A-Series graphics.

Operating System Requirements

- Windows® 10 64-bit 20H2 or newer
- Windows 11* 64-bit
- Confirm the Operating System is using the GPT partition type:
 - For Windows 11, this mode is configured by default.
 - For Windows 10, the partition type can be converted if installed with a MBR partition type.
 - Refer to the Microsoft Tool & Guide

for more information.

Motherboard Requirements

- Full-size PCI Express 3.0 (or newer) x16 slot
- Resizable (Re-Size) BAR

Steps to Enable Resizable BAR:

1. **Enter** the system's BIOS/UEFI firmware configuration menu by **pressing** the *DEL* key during system start up. This may vary between each system manufacturer, please check with your system manufacturer for specific instructions as necessary.
2. *Compatibility Support Module (CSM) or Legacy Mode* must be **disabled** and *UEFI boot mode* must be **Enabled**.
3. **Ensure** the following settings are set to *Enabled* (or *Auto* if the Enabled option is not present):
 - *Above 4G Decoding*
 - *Re-Size BAR Support*

The Resizable BAR option may be described as Re-Size BAR, Smart Access Memory, or Clever Access Memory. Contact the system manufacturer for specific details.

Use your system's latest motherboard firmware supporting Resizable BAR.

Refer to your system manufacturer's support page
for further details.

Power Supply Requirements

Power supply requirements may vary, please check the manufacturer for specific details.

Intel® Arc™ A770 Limited Edition and A750 Limited Edition Graphics:

- Minimum 600W power supply with two PCIe power connectors – 1x8-pin & 1x6-pin

For Intel Arc A770 Graphics Limited Edition Graphics Cards

How to Set Up the RGB Controller



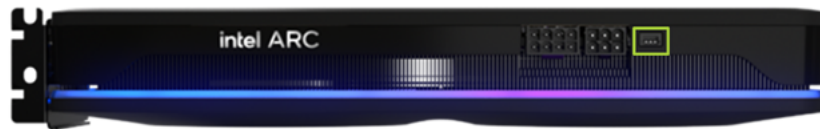
1. In the original packaging, **locate** and **remove** the RGB control cable from the box beneath the graphics card.



2. **Connect** the RGB control cable to the 1 x 3-pin connector on the graphics card (shown below) and to the available USB pin header on the motherboard.

The location of the USB pin header varies per motherboard. Contact your motherboard

Note motherboard manufacturer for more information on the header location.



3. **Download** and **install** the Intel® Arc™ RGB Controller

FAQs

Q: What warranty is offered with Intel® Arc™ A-series Graphics?

A: Warranty terms vary by manufacturer, please check with your manufacturer for warranty coverage.

For Intel® Arc™ A770 & A750 Limited Edition Graphics:

Intel® Graphics Card three-year limited warranty applies to eligible Intel® Graphics Cards that are packaged in authentic Intel packaging and sold to end customers as standalone components. Intel® Graphics Cards contained within Original Equipment Manufacturer (OEM) systems are subject to OEM manufacturer warranties and generally are not supported directly by Intel. For more information, please visit Intel® Arc 7 Graphics Cards Three-Year Limited Warranty Terms and Conditions

Q: My system/motherboard manufacturer has provided a firmware update enabling support for Resizable BAR, but I still cannot see the Resizable BAR option!

A: For some systems, you may need to first enable 'Above 4G decoding', save the configuration, and restart, before the Resizable BAR option will be shown.

Q: I am on a 10th Gen Intel® Core™ Processor. Does my motherboard support Resizable BAR?

A: Support for resizable BAR on 10th Gen platforms will vary. Please contact your system/motherboard manufacturer for specific support.

Q: Why do I need to enable Resizable BAR?

A: Resizable BAR must be enabled for optimal performance in all applications using Intel® Arc™ A-Series Graphics.

Q: Do I need to update the firmware on my Intel® Arc™ A-Series graphics card?

A: No, the graphics card will not require a firmware update. However, if using a 10th Gen Intel® Core™ Processor based system, a firmware update for your system platform/motherboard will be required. The latest graphics driver is always recommended, please visit support.Intel.com for the latest graphics driver.

Q: How do I check if Resizable BAR has been enabled once I've installed my new Intel® Arc™ A-Series graphics card?

A: You can use Intel® Arc™ Control or the Intel® Driver & Support Assistant Tool.



Q: Is my Operating System boot mode is configured correctly for Intel® Arc A-Series Graphics?

A: Ensure the operating system is using the UEFI boot mode & GPT partition style. For Windows, it is possible to switch firmware modes using the MBR2GPT tool

. Compatibility Support Module (CSM) must be disabled and UEFI boot mode must be enabled.

Q: Which video output supports variable refresh rate for gaming?

A: The preferred video outputs for gaming are the DisplayPort outputs. All DisplayPort outputs support Adaptive Sync for smooth, tear-free gaming. HDMI output capabilities may vary, please check the manufacturer for specific details. The Intel® Arc™ A770 Limited Edition and A750 Limited Edition Graphics offer an HDMI 2.1 output with support for variable refresh rate.

Q: What should I do if my system configuration is not listed?

For configurations not listed in this guide, there may be performance or stability issues. We recommend updating to one of the configurations listed for optimal performance with Intel® Arc™ Graphics.

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