



## Introduction

### About NVIDIA Jetson Orin Nano/Orin NX

The NVIDIA Jetson Orin Series is the latest released developer board series by NVIDIA Jetson Official. It brings your next-gen products to life with the world's most powerful AI computers for energy-efficient [autonomous-machines](#).

NVIDIA® Jetson Orin™ modules have up to 275 trillion operations per second (TOPS) and 8X the performance of the last generation for multiple concurrent AI inference pipelines, plus high-speed interface support for multiple sensors, making them the ideal solution for a new age of robotics.

#### ✓ Detail

For more details, please refer to NVIDIA Official Page: <https://www.nvidia.com/en-us/autonomous-machines/embedded-systems/jetson-orin/>

### About Arducam Cameras for NVIDIA Jetson Orin

Currently, Arducam Team has implemented a variety of cameras compatible with NVIDIA Jetson Nano and Xavier NX development boards. We have developed an embedded camera solution based on the NVIDIA Jetson platform, and on this basis, we have extended the types of cameras and expanded the scope of use.

With the advent of the NVIDIA Jetson Orin module with ultra-high development capabilities, we plan to continue the development and expansion of embedded cameras based on this platform to meet the needs of our customers.

At present, we have realized the adaptation of some **IMX219, IMX477, IMX519 cameras and Arducam Jetariety Cameras on NVIDIA Jetson Orin NX/Orin Nano**. We will adapt more cameras for more NVIDIA Jetson Platforms in the future. If you need such products or services, please continue to pay attention to our progress.

### Supported Sensors

#### 📄 Abstract

At present, we have tested the following sensors on NVIDIA Jetson Orin NX/Orin Nano and adapted them into the NVIDIA Jetson Orin kernel:

Resolution	Sensor	Max Frame Rate
8MP	<a href="#">imx219</a>	<a href="#">IMX219 Frame Rates</a>
12MP	<a href="#">imx477</a>	<a href="#">IMX477 Frame Rates</a>
16MP	<a href="#">imx519</a>	<a href="#">IMX519 Frame Rates</a>



12MP	<a href="#">IMX708</a>	4608 x 2592@14fps, 2304 x 1296@55fps, 1536 x 864@90fps
2MP	<a href="#">AR0234</a>	1920x1200@30fps, 1920x1080@30fps, 1280x720@60fps
1MP	<a href="#">OV9281</a>	RAW8/RAW10: 1280x800@80fps, 1280x720@80fps, 640x400@240fps
2MP	<a href="#">OV2311</a>	RAW8/RAW10: 1600x1300@60fps, 1600x1080@80fps, 1280x720@120fps
18MP	<a href="#">AR1820HS</a>	2432x1840@30fps, 1920x1080@50fps, 1216x920@60fps

**Tip**

You can refer to the following doc to get the supported sensors and JetPack/L4T version for different NVIDIA Jetson platforms:

[Introduction of Supported Sensors and JetPack version for NVIDIA Jetson](#)

## Product

### NVIDIA Jetson Native Camera:

**Version Tips**

The following products are tested and verified on **NVIDIA Jetson Orin Nano/Orin NX** (JetPack 5.1 L4T 35.3.1)

Product Image	SKU	Pin/Connect Type	Sensor	Resolution	Features	Lens Type	Field of V
	<a href="#">B0179</a>	15/bottom	IMX219	8MP	Wide Angle	M12 Lens	155°(H) x
	<a href="#">B0183</a>				Low Distortion		75°(H) x
	<a href="#">B0287</a>				Wide Angle		220°(H) x
	<a href="#">B0191</a>				V1/V2 Size	Stock Lens	62.2°(H) x
	<a href="#">B0181</a>	8MP Autofocus	65°(H) x				
	<a href="#">B01678MP</a>				Pan-Tilt-Zoom Kit	CS Lens	H(67°~18°)






	B0250	15/Bottom	IMX477	12MP	HDMI Extension Kit	CS Lens	65° (H) x
	B0251	22/TOP			Mini Size	M12 Lens	75°(H) x
	B0249				High Resolution	CS Mount	75° (H) x
	B0273				High Resolution	M12 Mount	75° (H) x
	B0274				High Resolution	CS Mount	65° (H) x
	B016712MP				15pin/22pin	Pan-Tilt-Zoom Kit	Zoom Lens
	B0371	15/TOP	IMX519	16MP	High Resolution	Stock Lens	66°(H) x
	B0482	15/Bottom	IMX708	12MP	Wide Angle	M12 Mount Lens	150°(D)x12 (v

**Arducam Jetvariety Camera:**



The following products have been tested and verified on **NVIDIA Jetson Orin Nano/Orin NX**(JetPack 5.1 L4T 35.3.1)

Note: The `cam0` port of NVIDIA Orin Nano board may have some conflict with Arducam Jetvariety cameras on JetPack 35.3.1 version. At present, you can use the camera on `cam1` port.

Product Image	SKU	Pin/Connect Type	Sensor	Resolution	Features	Lens Type	Field of V
	<a href="#">B0223</a>	22pin/Top	OV9281	1MP	Mono Global Shutter	M12 Lens	110°(H) :
	<a href="#">B0221</a>		OV2311	2MP	Mono Global Shutter	M12 Lens	83°(H) ×
	<a href="#">B0429</a>		AR0234	2MP	Color Global Shutter	M12 Lens	90°(H) ×
	<a href="#">B0367</a>	22/Top	AR1820HS	18MP	High Resolution	M12 Lens	75°(H) ×

### Multi Camera Kit

For the full list of Arducam multi-camera kits supported on NVIDIA Jetson Orin Nano/Orin NX, please refer to the following section:

[Arducam Multi-Camera Kits for NVIDIA Jetson](#)

### Next

[Quick Start Guide](#)

ducts or you want to cooperate with us, you can get in touch with us quickly by contacting [sales@arducam.com](mailto:sales@arducam.com)

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