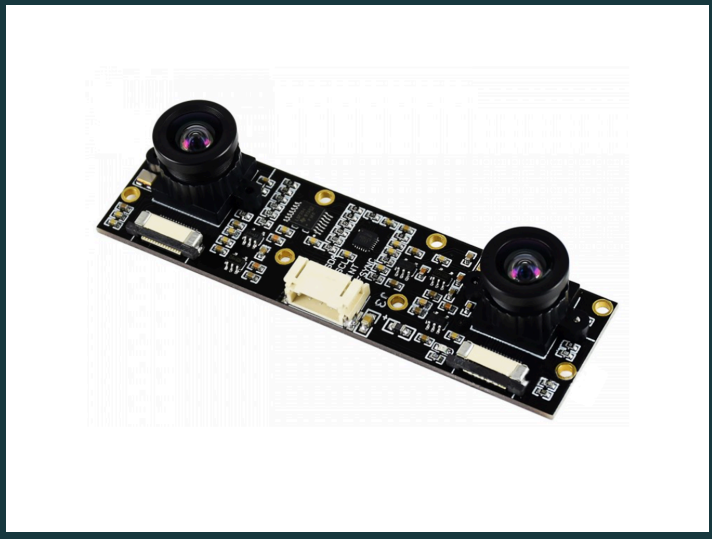
seeed studio

INDUSTRIAL PRODUCT DATASHEET

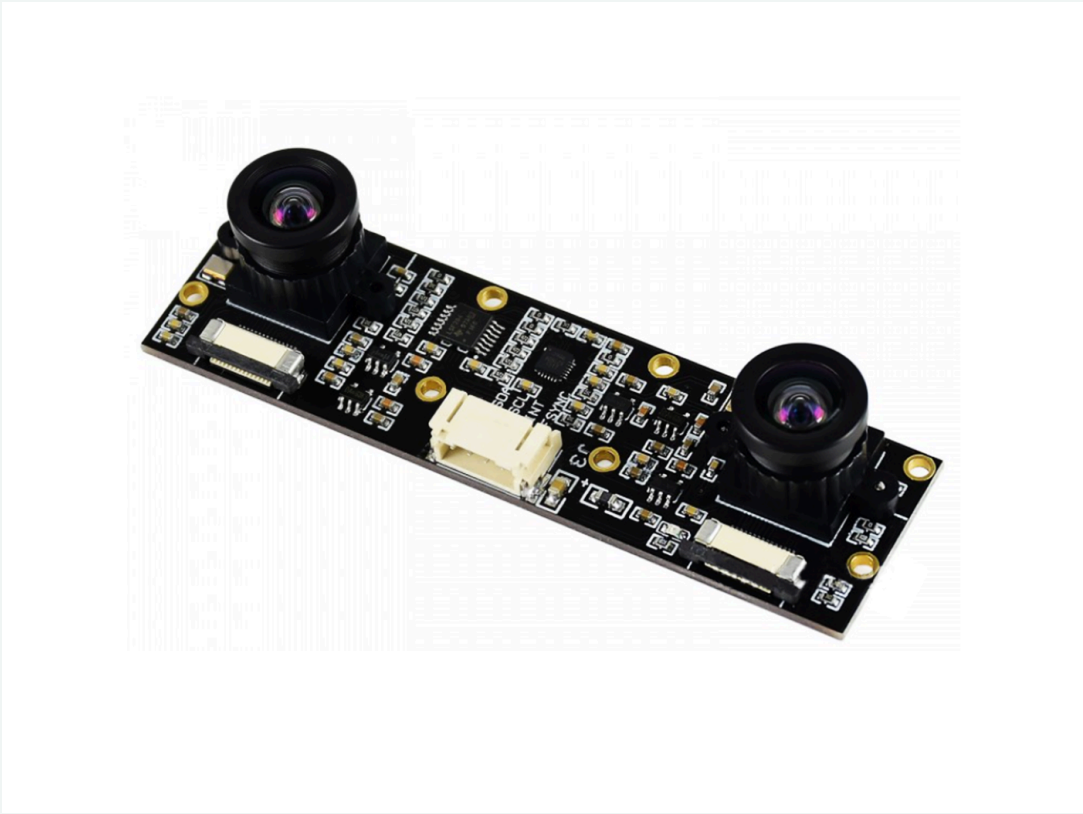
IMX219-83 8MP 3D Stereo Camera Module – Compatible with Jetson Nano/ Xavier NX

IMX219-83 8MP 3D Stereo Camera Module with dual IMX219 sensors, 3280×2464 resolution, high FOV, and ICM20948 motion sensor, compatible with Jetson Nano/Xavier NX.

SKU	UPDATED	PRICE
114992270	2026-06-10 12:21:33	$54.90(Excl. VAT)



Overview



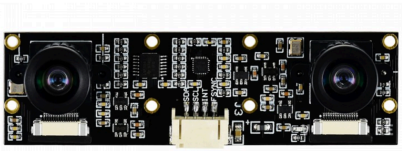
The IMX219-83 8MP 3D Stereo Camera Module features two 8MP Sony IMX219 image sensors providing 3D depth vision at a resolution of 3280×2464. It offers a high field-of-view for expansive area capture and integrates an InvenSense ICM20948 motion tracking sensor for improved accuracy.

Key Features

Features

- High-quality camera with two 8 megapixel Sony IMX219 image sensors for 3D depth vision
- Capable of viewing images at a high resolution of 3280 × 2464
- High FOV (field-of-view) to capture more area
- Integrated InvenSense ICM20948 motion tracking sensor for better accuracy

Product Gallery



Specification

Specification	Description
Megapixels	8 Megapixels
Photosensitive chip	Sony IMX219
Resolution	3280 × 2464 (per camera)
Lens Specifications	
CMOS size	1/4inch
Focal Length	2.6mm
Angle of View	83/73/50 degree (diagonal/horizontal/vertical)
Distortion	<1%
Baseline Length	60mm
ICM20948	
Accelerometer	
Resolution	16-bit
Measuring Range (configurable)	±2, ±4, ±8, ±16g
Operating Current	68.9uA
Gyroscope	
Resolution	16-bit
Measuring Range (configurable)	±250, ±500, ±1000, ±2000°/sec
Operating Current	1.23mA
Magnetometer	
Resolution	16-bit
Measuring Range	±4900μT
Operating Current	90uA
Dimensions	24mm × 85mm

Part List

	114992260	114992261	114992262	114992263	114992264	114992265	114992
Diagonal Field of View (FOV)	77°	77°	130°	160°	160°	200°	83°
IR LED Modules	None	2	None	None	2	None	None
Aperture	2.0	2.0	1.8	2.35	2.35	2.0	/
Focal Length	2.96mm	2.96mm	1.88mm	3.15mm	3.15mm	0.87mm	2.6mm
Lens Construction	4P	4P	4E+IR	6G+IR	6G+IR	1G4P+IR	/
Distortion	<1%	<1%	<7.6%	<14.3%	<14.3%	<18.6%	<1%
EFL	2.93mm	2.93mm	1.85mm	3.15mm	3.15mm	0.9mm	/
BFL (Optical)	1.16mm	1.16mm	1.95mm	3.15mm	3.15mm	1.41mm	/

Specification	Description
Megapixels	8 Megapixels
Photosensitive chip	Sony IMX219
Resolution	3280 × 2464 (per camera)
Lens Specifications	
CMOS size	1/4inch
Focal Length	2.6mm
Angle of View	83/73/50 degree (diagonal/horizontal/vertical)
Distortion	<1%
Baseline Length	60mm
ICM20948	
Accelerometer	
Resolution	16-bit
Measuring Range (configurable)	±2, ±4, ±8, ±16g
Operating Current	68.9uA
Gyroscope	
Resolution	16-bit
Measuring Range (configurable)	±250, ±500, ±1000, ±2000°/sec
Operating Current	1.23mA
Magnetometer	
Resolution	16-bit
Measuring Range	±4900μT
Operating Current	90uA
Dimensions	24mm × 85mm

Compliance & Logistics



HSCODE	8525801390
USHSCODE	8525895050
UPC	
EUHSCODE	8517600000
COO	CHINA

Resource Links

- https://www.seeedstudio.com/IMX219-83-Stereo-Camera-8MP-Binocular-Camera-Module-Depth-Vision-Applicable-for-Jetson-Nano-p-4610.html
- IMX219-83 Stereo Camera wiki

Seeed Technology Co.,Ltd.
9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676
Web: www.seeed.cc
Shop: www.seeedstudio.com