Forum

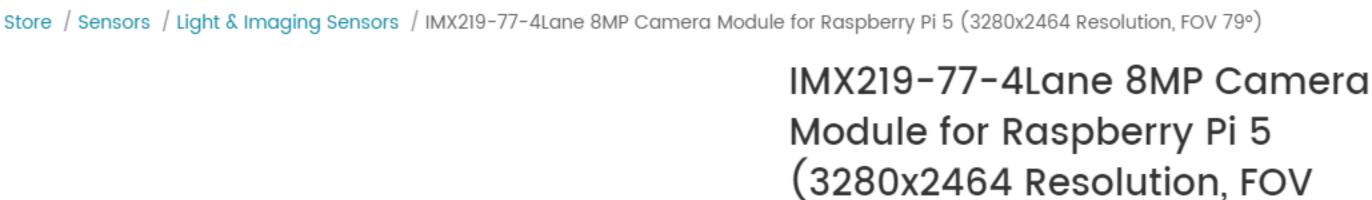
Wiki

Blog

79°)

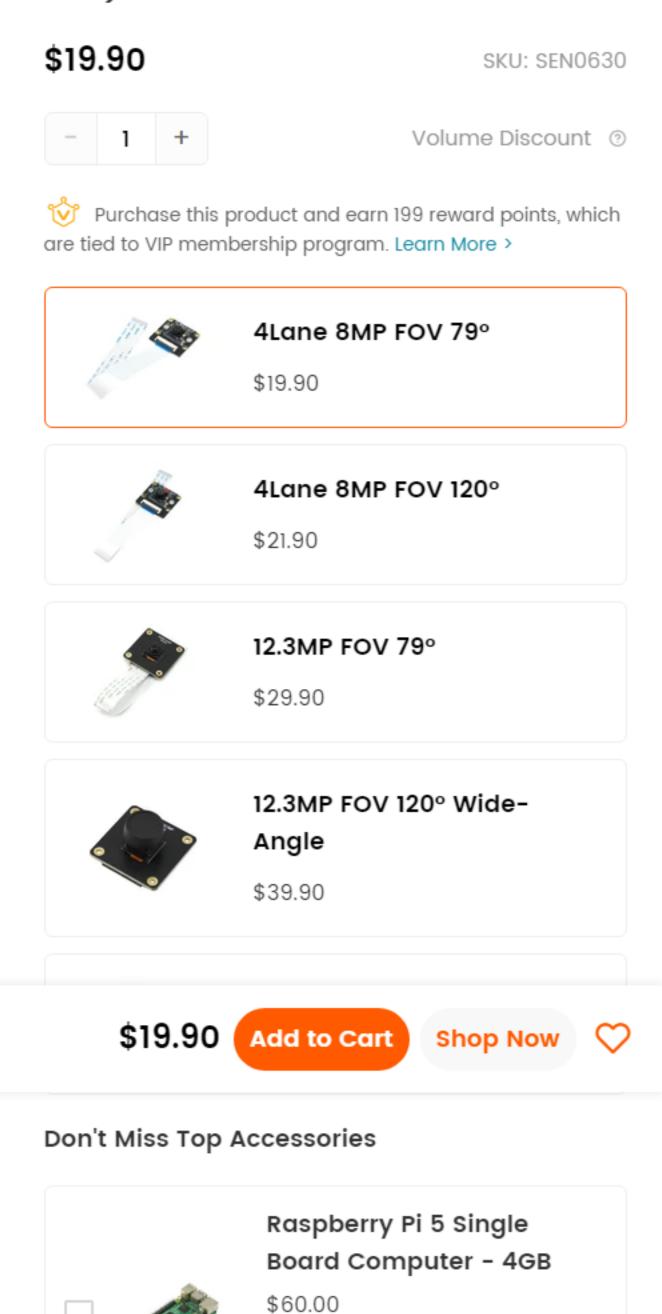
Learn

\$USD



Community

Store~



Details

\$80.00

Details

Raspberry Pi 5 Single

Board Computer - 8GB



Introduction

video performance are crucial.

IMX219-77-4Lane 8MP Camera Module for R...

Excellent Compatibility with Raspberry Pi 5 IMX219-77-4Lane 8MP Camera is designed with seamless integration in mind, providing out-of-the-box compatibility with the Raspberry Pi 5. Its 22-pin 0.5mm pitch connector and optimized interface make installation and use straightforward, ensuring it works effectively with Raspberry Pi-based projects.

The IMX219-77-4Lane 8MP Camera Module is a high-performance imaging solution designed for high-definition

visual applications with the Raspberry Pi 5. Featuring the Sony IMX219 photosensitive chip, it offers 8 million

pixels and a resolution of 3280x2464, delivering sharp, distortion-free images. The module uses the MIPI-CSI-

4Lane interface, ensuring fast data transfer for demanding image processing tasks. It is ideal for applications

such as security surveillance, robotics, and image processing, where both fast, high-quality imaging and smooth

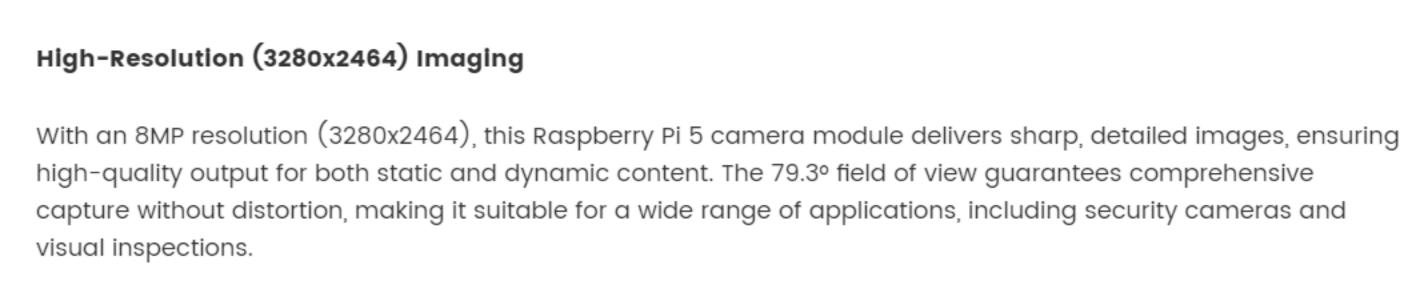


Figure: Wiring Diagram of Raspberry Pi 5 and IMX219-77-4Lane 8MP Camera Module

Figure: IMX219-77-4Lane 8MP Raspberry Pi 5 Camera Module Test Shot at 50cm - Approximate Horizontal Field:

62cm, Vertical Field: 47cm (Manual Measurement, Allow for Error)

Utilizing a MIPI-CSI-4Lane interface, the Raspberry Pi 5 camera module offers a higher frame rate compared to

 5.55 ± 0.2

traditional 2-lane modules. This results in smoother video capture and enhanced performance for tasks requiring

3.5

6543210123456

1.2 PCB

How to Choose IMX219-77-4Lane camera module

Name

SKU

Photosensitive Chip

Pixels

Resolution

Channels

Interface

FOV

Shutter Mode

Imaging Type

Distortion

Compatible

Applications

Industrial automation

Close-range inspections

MIPI-CSI-4Lane Interface for Enhanced Performance

real-time imaging, such as object detection and machine vision.

 25 ± 0.2

.................

such as industrial automation, object recognition, and close-range inspections. The 120° FOV wide-angle version, designed for broader area capture, is perfect for security surveillance, smart home monitoring, autonomous robots, and large-scale visual inspections. Its wider field of view allows for fewer cameras to cover larger spaces, reducing blind spots in monitoring systems. Raspberry Pi CSI Camera Selection Table IMX219-77-4Lane IMX219-120-4Lane IMX378-79 12.3MP OV9281-79 1MP Global IMX378-190 12.3MP

Camera

SEN0632

IMX378

1230W

4056x3040

CSI-2

CSI 15Pin

79°

Rolling Shutter

Color

< 1.5%

Raspberry Pi 4B &

Raspberry Pi 5

Camera

SEN0633

IMX378

1230W

4056x3040

CSI-2

CSI 15Pin

190°Fisheye lens

Rolling Shutter

Color

< 58%

Raspberry Pi 4B &

Raspberry Pi 5

8MP Camera

SEN0631

IMX219

800W

3280x2464

CSI-4

CSI 22Pin

120°

Rolling Shutter

Color

< 1%

Raspberry Pi 5

8MP Camera

SEN0630

IMX219

800W

3280x2464

CSI-4

CSI 22Pin

79.3°

Rolling Shutter

Color

< 1%

Raspberry Pi 5

The IMX219-77-4Lane camera module is available in two versions: 79° FOV (this one) and 120° FOV. The 79° FOV

version offers a narrower, more focused field of view, making it ideal for applications requiring precision and detail,

Figure: Dimension Diagram of IMX219-77-4Lane 8MP Raspberry Pi 5 Camera Module

Specification Photosensitive chip: Sony IMX219 · Pixels: 8 million Resolution: 3280x2464 Camera type: color · Shutter mode: rolling shutter

PCB size: 25*24mm **Documents**

Tutorial

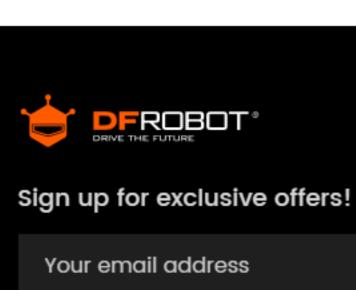
 Interface Schematic Module Specifications

• IMX219 DataSheet

- **Shipping List**

22-pin FPC cable x1

- Information **Customer Service My Account**



Payment FAQ Copyright © 2025 DFRobot. All rights reserved.

About Us Warranty

Like us on

Shutter Camera

SEN0634

OV9281

100W

1280x800

CSI-2

CSI 15Pin

79.3°

Global Shutter

Black and White

< 1%

Raspberry Pi 4B &

Raspberry Pi 5

Figure: Raspberry Pi CSI Camera Selection Table Object detection and machine vision

· Focus mode: fixed focus • CMOS size: 1/4 inch

· Aperture: 2.0 • Focal length: 2.85mm Field of view: 79.3° • Distortion: < 1%

 Interface: MIPI-CSI-4Lane Cable specification: FPC-22Pin-0.5mm pitch Lens size: 6.5*6.5mm

• IMX219-77-4Lane 8MP Raspberry Pi 5 Camera x1

Affiliates Specials

Raspberry Pi Projects

(in)

>

DFRobot Distributors Contact Us Terms & Conditions Site Map Shipping