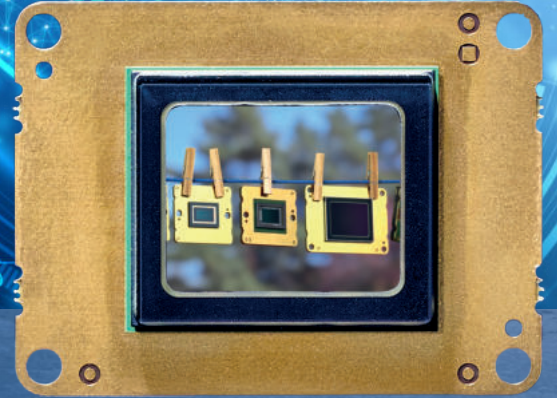


MIPI Camera Module

MIPI for industry starts here



The ultra-compact boards support the MIPI CSI-2 specification and they are available with many different image sensors. Thanks to standardized data transmission, the miniature cameras can be manufactured and integrated into various platforms at extremely low costs. MIPI modules are ideal for multi camera applications including mobile and distributed applications like

autonomous driving, UAVs, Smart City, medical technology, and laboratory automation. With MIPI sensor boards we offer OEMs a highly versatile component for their embedded vision solutions – all made in Germany!

VC MIPI CAMERA MODULE

| Module ID | CMOS Sensor | RESOLUTION px | RESOLUTION MP | Color B&W | Shutter | TrigIn/FlashOut | fps | price €/1000 units excl. VAT | |
|-------------------------|------------------|---------------|---------------|-----------|--------------|-----------------|-----|------------------------------|------------|
| VC MIPI OV7251 | Omnivision® | 640 x 480 | 0.3 | ● | Global | ✓ | 120 | 33.99 | available |
| VC MIPI OV9281 | Omnivision® | 1280 x 800 | 1.0 | ● | Global | ✓ | 120 | 33.99 | available |
| VC MIPI IMX178 | SONY® Starvis™ | 3072 x 2048 | 6.3 | ● | Global Reset | ✓ | 60 | 162.99 | available |
| VC MIPI IMX183 | SONY® Exmor R® | 5496 x 3672 | 20.2 | ● | Global Reset | ✓ | 24 | 349.99 | available |
| VC MIPI IMX183-C | SONY® Exmor R® | 5496 x 3672 | 20.2 | ●●● | Global Reset | ✓ | 24 | 310.99 | available |
| VC MIPI IMX226 -B&W /-C | SONY® Starvis™ | 4072 x 3046 | 12.4 | ●●● | Global Reset | ✓ | 44 | 212.99 | available |
| VC MIPI IMX250 -B&W /-C | SONY® Pregius™ | 2464 x 2056 | 5.1 | ●●● | Global | ✓ | 130 | 527.99 | available |
| VC MIPI IMX252 -B&W /-C | SONY® Pregius™ | 2064 x 1544 | 3.2 | ●●● | Global | ✓ | 160 | 342.99 | available |
| VC MIPI IMX264 -B&W /-C | SONY® Pregius™ | 2464 x 2056 | 5.1 | ●●● | Global | ✓ | 30 | 362.99 | available |
| VC MIPI IMX265 -B&W /-C | SONY® Pregius™ | 2064 x 1544 | 3.2 | ●●● | Global | ✓ | 50 | 257.99 | available |
| VC MIPI IMX273 -B&W /-C | SONY® Pregius™ | 1456 x 1088 | 1.6 | ●●● | Global | ✓ | 225 | 158.99 | available |
| VC MIPI IMX290 | SONY® Starvis™ | 1920 x 1080 | 2.1 | ● | Rolling | | 120 | 98.99 | available |
| VC MIPI IMX296 -B&W /-C | SONY® Pregius™ | 1440 x 1080 | 1.6 | ●●● | Global | ✓ | 60 | 76.99 | available |
| VC MIPI IMX297 | SONY® Pregius™ | 728 x 544 | 0.4 | ● | Global | ✓ | 120 | 76.99 | available |
| VC MIPI IMX327-C | SONY® Starvis™ | 1920 x 1080 | 2.1 | ●●● | Rolling | | 60 | 54.99 | available |
| VC MIPI IMX335 | SONY® Starvis™ | 2592 x 1944 | 5.0 | ● | Rolling | | 60 | 65.99 | available |
| VC MIPI IMX335 -C | SONY® Starvis™ | 2592 x 1944 | 5.0 | ●●● | Rolling | | 60 | 65.99 | available |
| VC MIPI IMX392 -B&W /-C | SONY® Pregius™ | 1920 x 1200 | 2.3 | ●●● | Global | ✓ | 200 | 178.99 | available |
| VC MIPI IMX412-C | SONY® Starvis™ | 4056 x 3040 | 12.3 | ●●● | Rolling | | 40 | 109.99 | available |
| VC MIPI IMX415 | SONY® Starvis™ | 3840x 2160 | 8.3 | ● | Rolling | | 60 | 109.99 | available |
| VC MIPI IMX415-C | SONY® Starvis™ | 3840 x 2160 | 8.3 | ●●● | Rolling | | 60 | 98.99 | available |
| VC MIPI IMX568 | SONY® Pregius™ S | 2472 x 2064 | 5.1 | ●●● | Global | ✓ | 96 | 225.99 | available |
| VC MIPI IMX287 -B&W /-C | SONY® Pregius™ | 728 x 544 | 0.4 | ●●● | Global | ✓ | 530 | on request | on request |
| VC MIPI IMX290-C | SONY® Starvis™ | 1920 x 1080 | 2.1 | ●●● | Rolling | | 120 | on request | on request |
| VC MIPI IMX462-C | SONY® Starvis™ | 1920 x 1080 | 2.1 | ●●● | Rolling | | 120 | on request | on request |
| VC MIPI IMX490-C | SONY® | 2896 x 1876 | 5.4 | ●●● | Rolling | | 40 | on request | on request |

| Module ID | CMOS Sensor | RESOLUTION px | RESOLUTION MP | Color B&W | Shutter | TrigIn/FlashOut | fps | price €/1000 units excl. VAT | |
|---------------------|------------------|---------------|---------------|-----------|---------|-----------------|-----|------------------------------|----------------------------|
| VC MIPI IMX500-C | SONY® | 4056 x 3040 | 12.3 | | Rolling | | 60 | on request | on request |
| VC MIPI IMX501-C | SONY® | 4056 x 3040 | 12.3 | | Rolling | | 60 | on request | on request |
| VC MIPI IMX990-SWIR | SONY® | 1280 x 1024 | 1.3 | | Global | ✓ | 134 | on request | on request |
| VC MIPI IMX991-SWIR | SONY® | 640 x 512 | 0.3 | | Global | ✓ | 258 | on request | on request |
| VC MIPI IMX565 | SONY® Pregius™ S | 4096 x 3000 | 12.0 | | Global | ✓ | 42 | on request | on request |
| VC MIPI IMX566 | SONY® Pregius™ S | 2856 x 2848 | 8.1 | | Global | ✓ | 62 | on request | on request |
| VC MIPI IMX567 | SONY® Pregius™ S | 2472 x 2064 | 5.1 | | Global | ✓ | 96 | on request | on request |

MIPI Accessories

Driver

Of course, we also provide the drivers for an optimal sensor connection! Being experts in the field of camera development, driver development is a core mission for us. That's why the standard drivers are included for free!

VC MIPI Repeater Board

The MIPI Repeater Board provides for a cable extension and additional interfaces like trigger input and flash trigger output at the same time.

Cable

Maximizing the output of the powerful MIPI-CSI-2 interface, we developed shielded FPC cables (for 15-22 and 22-22) to be able to transfer the data reliably and lossless. Thanks to that cable, the MIPI camera module can be connected directly, without any additional board, to the CPU board.

Lensholder

Useful: Our standardized lensholder for C and S mount lenses - ready to order!

Compatible CPU Boards

Vision Components®

VC Adap96 CSI & Ethernet Adapter
VC Compute Module Interface (CMI) Board

Auvideoa

Auvideoa NVIDIA® Jetson™ J100 Processor: NVIDIA® TX1
Auvideoa NVIDIA® Jetson™ AGX Xavier™ Carrier

Geniatech

4 IoT - Geniatech Processor: Snapdragon™ 410E

MSC

MSC SM2S-IMX8MINI
MSC SM2S-IMX8NANO
MSC SM2S-IMX8PLUS

Raspberry Pi®

Raspberry Pi® Zero V1.3 Processor: Broadcomm®
RaspberryPi® 3B+ Processor: Broadcomm®
RaspberryPi® 4B Processor: Broadcomm®
Raspberry Pi® Compute Module Industrial Processor: Broadcomm®

Toradex

Verdin iMX8M Mini
Verdin iMX8M Nano
Verdin iMX8M Plus

Trenz Electronic

ZynqBerry (RaspberryPi® Form Factor with Xilinx® Z-70075)

Asus®

Asus® Tinker Board Processor: Rockchip® RK3288

DragonBoard™

DragonBoard™ 410C Processor: Snapdragon™ 410E
DragonBoard™ 820C Processor: Snapdragon™ 820E

NVIDIA®

NVIDIA® Jetson™ TX2 module Processor: NVIDIA® TX2
NVIDIA® AGX Xavier™
NVIDIA® Jetson Nano™
NVIDIA® Jetson Xavier™ NX

Rock960

Rock960 Processor: Rockchip® RK3399

Kontron

SOM-SL i.MX8M Mini

SightLine Applications

4000-OEM Processor: Snapdragon™ 820/
Inforce 6601™ SoM

Ultra96™

Ultra96™ Processor: Zynq UltraScale+™ ZU3EG