

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 MODULES

Module ID	CMOS Sensor	RESOLUTION px	RESOLUTION MP	Color B&W	Shutter	TrigIn/FlashOut	fps	price €/1000 units excl. VAT	
VC MIPI OV9281	Omnivision®	1280 x 800	1.0	●	Global	✓	120	29.99	available
VC MIPI OV7251	Omnivision®	640 x 480	0.3	●	Global	✓	120	29.99	available
VC MIPI IMX183	SONY® Exmor R®	5496 x 3672	20.2	●	Global Reset	✓	24	317.99	available
VC MIPI IMX183-C	SONY® Exmor R®	5496 x 3672	20.2	●	Global Reset	✓	24	281.99	available
VC MIPI IMX226	SONY® Starvis™	4072 x 3046	12.4	●	Global Reset	✓	44	192.99	available
VC MIPI IMX290	SONY® Starvis™	1920 x 1080	2.1	●	Rolling		120	89.99	available
VC MIPI IMX296	SONY® Pregius™	1440 x 1080	1.6	●	Global	✓	60	69.99	available
VC MIPI IMX296-C	SONY® Pregius™	1440 x 1080	1.6	●	Global	✓	60	69.99	available
VC MIPI IMX297	SONY® Pregius™	728 x 544	0.4	●	Global	✓	120	69.99	available
VC MIPI IMX327-C	SONY® Starvis™	1920 x 1080	2.1	●	Rolling		60	49.99	available
VC MIPI IMX412-C	SONY® Starvis™	4056 x 3040	12.3	●	Rolling		40	99.99	available
VC MIPI IMX415-C	SONY® Starvis™	3840 x 2160	8.3	●	Rolling		60	89.99	available
VC MIPI IMX250	SONY® Pregius™	2464 x 2056	5.1	●	Global	✓	130	479.99	available
VC MIPI IMX252	SONY® Pregius™	2064 x 1544	3.2	●	Global	✓	160	311.39	available
VC MIPI IMX273	SONY® Pregius™	1456 x 1088	1.6	●	Global	✓	225	143.99	available
VC MIPI IMX250-C	SONY® Pregius™	2464 x 2056	5.1	●	Global	✓	130	479.99	available
VC MIPI IMX252-C	SONY® Pregius™	2064 x 1544	3.2	●	Global	✓	160	311.39	available
VC MIPI IMX226-C	SONY® Starvis™	4072 x 3046	12.4	●	Global Reset	✓	44	192.99	available
VC MIPI IMX392	SONY® Pregius™	1920 x 1200	2.3	●	Global	✓	200	161.99	available
VC MIPI IMX415	SONY® Starvis™	3840x 2160	8.3	●	Rolling		60	99.99	available
VC MIPI IMX392-C	SONY® Pregius™	1920 x 1200	2.3	●	Global	✓	200	161.99	Dec. 2020
VC MIPI IMX273-C	SONY® Pregius™	1456 x 1088	1.6	●	Global	✓	225	143.99	Q1 2021
VC MIPI IMX287	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 IMX335	SONY® Starvis™	2592 x 1944	5.0	●	Rolling		60	on request	Jan. 2021
VC MIPI IMX264	SONY® Pregius™	2464 x 2056	5.1	●	Global	✓	30	on request	on request
VC MIPI IMX265	SONY® Pregius™	2064 x 1544	3.2	●	Global	✓	50	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 IMX490-C	SONY®	2896 x 1876	5.4		Rolling		40	on request	on request
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

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

Auvideo

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

Geniatech

4 IoT - Geniatech Processor: Snapdragon™ 410E

HummingBoard™

HummingBoard™ Processor: NXP i.MX6
HummingBoard™ Pro Processor: NXP i.MX6

MSC

MSC SM2-MB-EP1 (Smarc carrier board)
MSC SM2-IMX8 (Smarc carrier board)

Raspberry Pi®

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

Trenz Electronic

ZynqBerry (RaspberryPi® Form Factor with Xilinx® Z-7007S)

Asus®

Asus® Tinker Board Processor: Rockchip® RK3288

DragonBoard™

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

HiKey

HiKey960 Processor: Kirin™ 960
HiKey970 Processor: Kirin™ 970

MediaTec

MediaTec X20 Processor: Helio X20

NVIDIA®

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

Rock960

Rock960 Processor: Rockchip® RK3399

SightLine Applications

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

Ultra96™

Ultra96™ Processor: Zynq UltraScale+™ ZU3EG

Voipac

Voipac i.MX6 Open Rex single board comp.
Voipac i.MX6 Tiny Rex Baseboard lite