TechNexion

UVLS-FPD3-AR0234

- onsemi AR0234 2.3MP Global Shutter Sensor
- S-Mount for Interchangeable Lenses
- FAKRA Z-code Automotive Connector
- Plug & Play with Linux OS & Yocto
- VizionViewer™ configuration utility
- VizionSDK for custom development







Camera Information

CMOS Sensor	onsemi AR0234
Active Pixels	1920 (H) x 1200 (V) = 2.3 MP
Pixel Size	3.0 µm x 3.0 µm
Illuminated Type	Front Side Illuminated (FSI)
Maximum S/N Ratio	38 dB
Optical Format	1/2.6" (Diagonal 6.8 mm)
Shutter Type	Global Shutter
Chromaticity	Color
Maximum Frame Rate (YUV422-UYVY)	1920 x 1200 @ 60 fps 1920 x 1080 @ 60 fps 1280 x 720 @ 120 fps 640 x 480 @ 120 fps
Output Format	YUV422-UYVY RGB888 / RGB565 RAW8 / RAW10 / RAW12

Camera Interface

Serial Link	FPD-Link III
Serializer	TI DS90UB953
Connector	FAKRA SMB Jack Z-Code

Power

Power over Coax	10.8V - 26.4V	
Power Consumption	1920 x 1200 @ 60 fps ≤ 1.25W	
Standby Power	≤ 0.1W Standby	

Software Support

Platform Support	NVIDIA Jetson AGX Orin	
	NVIDIA Jetson Orin Nano / NX	
	NVIDIA Jetson Xavier NX	
	NVIDIA Jetson Nano	
	NXP i.MX95	
	TI Sitara™ AM68 / AM69	
	TI Jacinto™ TDA4VM / TDA4VH	
Operation System	Linux	
	Yocto	
Software	VizionViewer™	
Development SDK	opment SDK VizionSDK	

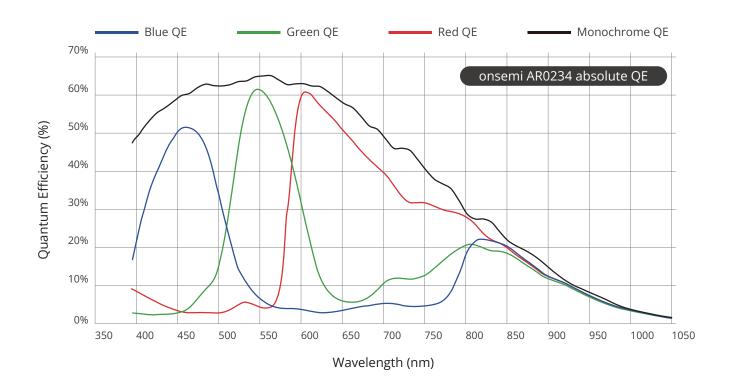
Environmental and Mechanical

Dimensions	24.5(W) x 24.5(H) x 30(D) mm
Weight	≤ 20 grams
Operating Temperature	-30°C to + 70°C

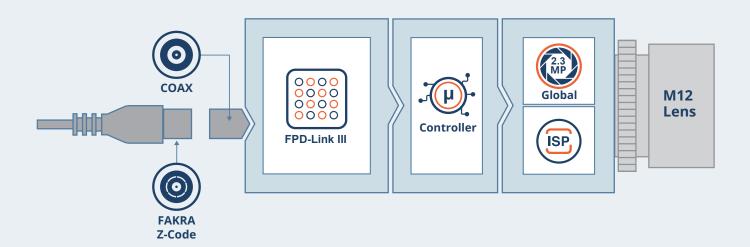
Certification and Compliance

Certification	Compliant with CE / FCC / RoHS /
	REACH directives

Spectral Characteristics

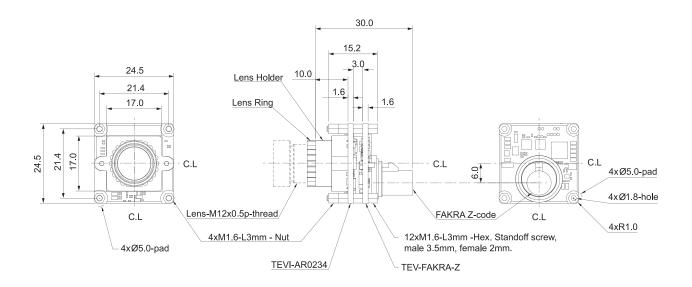


Block Diagram





Dimensions (units in mm)



Order Information

UVLS-FPD3-AR0234-x-Sxx-xx-xxxx

Option	Code	Description	
Chromaticity	С	Color	
Lens	S32	S-Mount Module D-FOV 32°	
	S83	S-Mount Module D-FOV 83°	
	S128	S-Mount Module D-FOV 128°	
Filter	-	-	
	IR	IR Cut Filter 650nm	
Custom ID	xxxx	Custom Part number ID for customized Software loader and special component (BOM)	

For customization, please contact your TechNexion sales representative.

Optional Accessories

An easy to attach A-Mount bracket for TechNexion 30mm enclosed cameras.







245-MOUNT-BRACKET on tripod (tripod not included)



For more information:

www.technexion.com

sales@technexion.com

Custom Lens Solutions







	0120112071102010002111	012011207110201000111	0 1 2 0 1 1 2 0 7 11 to 2 0 1 0 0 1 2 0 1 1 t
Focus Type	Fixed Focus	Fixed Focus	Fixed Focus
Focal Length	12 mm	3.9 mm	2.87 mm
Aperture	F2.0	F2.8	F2.8
Module D-FOV	31.8° ± 5%	82.8° ± 5%	127.7° ± 5%
Module H-FOV	26.9° ± 5%	73.4° ± 5%	110.5° ± 5%
Module V-FOV	16.8° ± 5%	50.1° ± 5%	68.6° ± 5%
TTL	23.2 mm	22 mm	21 mm
BFL	7.3 mm	4.54 mm	5.27 mm
MOD	0.3 m	0.3 m	0.3 m
Distortion	<-2.50%	<1.26%	<-20%
IR-Filter	650 nm	650 nm	650 nm

FPD-Link III Frame Grabbers

The ease of usage, benefits and integration of a FPD-Link III camera in embedded systems is often made complex by the lack of FPD-Link ports and connectors on the system. For those scenarios TechNexion developed a range of framegrabbers that easily plug into a USB port and extend the system with 1 to 4 FPD-Link interconnects.



1-4 Port

Connect up-to 4 FPD-Link cameras to a single USB port on your x86 or Arm based system.



Software

Linux and Yocto systems are supported.



UVC Compliant

Fully plug-n-play in Windows and Linux embedded systems.



VizionViewer™

Easy to use software utility providing you with granular camera settings control.



Autodetect

Zero configuration required to detect any specific TechNexion FPD-Link camera by the framegrabber.



VizionSDK

Hardcode and control your cameras with C# and Python code.









