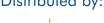
UVLS-FPD3-AR0821

- onsemi AR0821 8MP Rolling Shutter Sensor
- 4K HDR Imaging Capabilities
- Designed for Low Light Applications
- S-Mount for Interchangeable Lenses
- FAKRA Z-Code Automotive Connector
- Plug & Play with Linux OS & Yocto
- VizionViewer™ configuration utility
- VizionSDK for custom development





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Camera Information

CMOS Sensor	onsemi AR0821		
Active Pixels	3848 (H) x 2168 (V) = 8 MP		
Pixel Size	2.1 μm x 2.1 μm		
Illuminated Type	Back Side Illuminated (BSI)		
Maxi <mark>m</mark> um S/N Ratio	41.8 dB		
Optical Format	1/1.7" (Diagonal 9.25 mm)		
Shutter Type	Rolling Shutter		
Chromaticity	Color		
HDR Support	Yes		
Maximum Frame Rate (YUV422-UYVY)	384 <mark>0 x 2</mark> 160 @ 15 fps 2560 x 1440 @ 30 fps 1920 x <mark>108</mark> 0 @ 60 fps 1280 x 720 @ 60 fps 640 x 480 @ 60 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	3840 x 2160 @ 15 fps ≤ 1.6W		
Standby Power	≤ 0.1W Standby		







Software Support

Platform Support	NVIDIA Jetson AG <mark>X Orin</mark>
	NVIDIA Jetson Orin Nano / NX
	NVIDIA Jetson Xavier NX
	NVIDIA Jetson Nano
	NXP i.MX95
	TI Sitara™ AM68 / AM69
	TI Jacinto™ TDA <mark>4VM /</mark> TDA4VH
Operation System	Linux
	Yocto
Software	VizionViewer™
Development SDK	VizionSDK

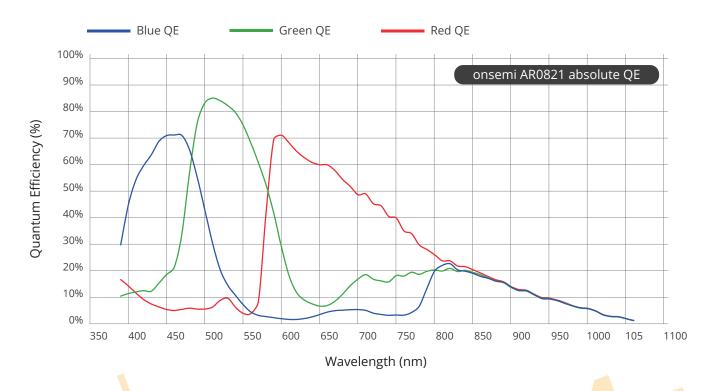
Environmental and Mechanical

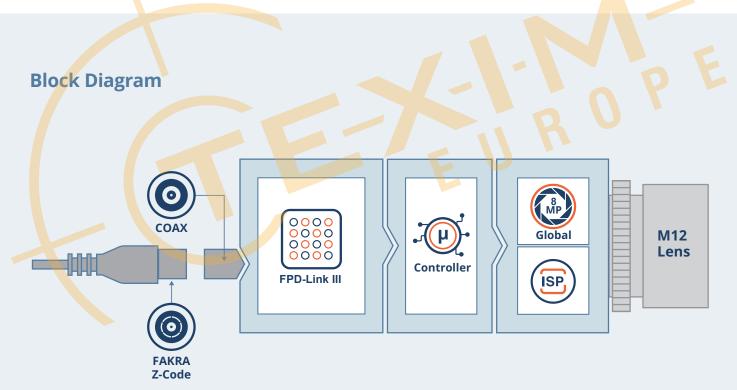
Dimensions	24.5(W) x 24.5(H) x 34.4(D) mm
Weight	≤ 25 grams
Operating Temperature	-30°C to + 70°C

Certification and Compliance

Certification	Compliant with CE / FCC / RoHS /	
	REACH directives	

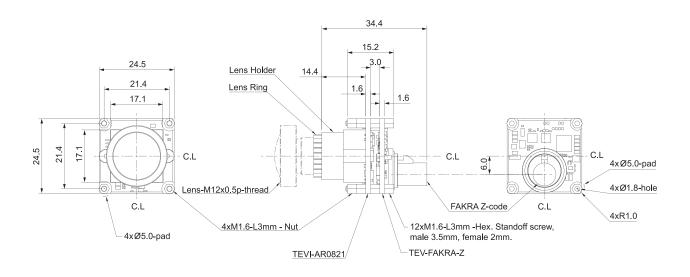
Spectral Characteristics







Dimensions (units in mm)



Order Information

UVLS-FPD3-AR0821-x-Sxx-xx-xxxx

Option	Code	Description	
Chromaticity	С	Color	
	M	Monochrome	
Lens	S44	S-Mount Module D-FOV 44°	
	S7 4	S-Mount Module D-FOV 74°	
	S11 <mark>9</mark>	S-Mount Module D-FOV 119°	
	S156	S-Mount Module D-FOV 156°	
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:



Custom Lens Solutions









	UVLS-FPD3-AR0821-C-S44-IR	U١
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VI S-FPD3-AR0821-C-S74-IR | UVI S-FPD3-AR0821-C-S119-IR | UVI S-FPD3-AR0821-C-S156-IR

	0VL3-FFD3-AR0021-C-344-IR	0VL3-FFD3-AK0021-C-3/4-IK	0VL3-FFD3-AR0021-C-3119-IR	UVL3-FPD3-AR0021-C-3130-IR
Focus Type	Fixed Focus	Fixed Focus	Fixed Focus	Fixed Focus
Focal Length	12 mm	6 mm	3 mm	3.2 mm
Aperture	F2.0	F2.8	F2.0	F2.0
Module D-FOV	44.0° ± 5%	74.4° ± 5%	118.8° ± 5%	156.0° ± 5%
Module H-FOV	38.3° ± 5%	67.1° ± 5%	110.7° ± 5%	137.2° ± 5%
Module V-FOV	21.6° ± 5%	40.8° ± 5%	75.4° ± 5%	79.4° ± 5%
TTL	23.09 mm	28.6 mm	29.56 mm	44.98 mm
BFL	5.06 mm	8.8 mm	4.85 mm	6.14 mm
MOD	0.15 m	0.1 m	0.3 m	0.3 m
Distortion	<2%	<0.50%	<-5%	<-32%
IR-Filter	650 nm	650 nm	650 nm	650 nm

FPD-Link III Frame Grabber

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 framegrabber that easily plug into a USB port and extend the system with FPD-Link interconnect.



Up to 15m

Up to 15 meters of data and power transmission over a single COAX cable.



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.











Disclaimer

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Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.



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