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VLS-FPD3-AR0822-CB

- onsemi AR0822 8MP Rolling Shutter Sensor
- 4K HDR Imaging Capabilities
- Near Infra-Red Enhancement for Outdoor Applications
- Designed for Low Light Applications
- C-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 AR0822
Active Pixels	3848 (H) x 2168 (V) = 8 MP
Pixel Size	2.0 μm x 2.0 μm
Illuminated Type	Back Side Illuminated (BSI)
Maximum S/N Ratio	40.5 dB
Optical Format	1/2" (Diagonal 8.81 mm)
Shutter Type	Rolling Shutter
Chromaticity	Color / Mono
HDR Support	Yes
Maximum Frame Rate (YUV422-UYVY)	3840 x 2160 @ 15 fps 2560 x 1440 @ 30 fps 1920 x 1080 @ 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	$3840 \times 2160 @ 15 \text{ fps} \le 1.3 \text{W}$
Standby Power	≤ 0.1W Standby

	VizionSDK VizionViewer™
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 VizionSDK

Environmental and Mechanical

Dimensions	29.5(W) x 29.5(H) x 33.3(D) mm
Weight	≤ 40 grams
MTBF	50,000 Hours
Shock	15G half-sine 11 ms duration
Vibration	1 Grms random 5-500Hz hr/axis
Relative Humidity	10 to 90 %
Operating Temperatur	re -30°C to + 70°C

Certification and Compliance

Certification	Compliant with CE / FCC / RoHS /
	REACH directives

Spectral Characteristics



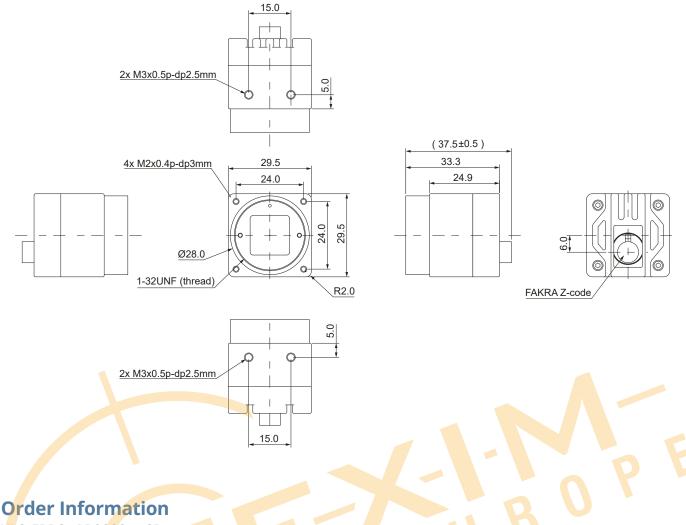


For more information: www.technexion.com sales@technexion.com

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Dimensions (units in mm)



VLS-FPD3 -AR0822-x-CB-xx-xxxx

Option	Code	Description
Chromaticity	С	Color
	М	Monochrome
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.



300-MOUNT-BRACKET



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



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Custom Lens Solutions

Our C-mount cameras can be paired with a variety of off-the-shelf lenses. Customers are welcome to choose their own, or alternatively our engineers are on standby to assist with selecting the right camera lens for different applications.



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.

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

Autodetect

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



Software Linux and Yocto systems are supported



VizionViewer™

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



VizionSDK

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









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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.





Headquarters & Warehouse

Elektrostraat 17 NL-7483 PG Haaksbergen The Netherlands

T:	+31 (0)53 573 33 33
E:	info@texim-europe.com
Homepage:	www.texim-europe.com





The Netherlands

Elektrostraat 17 NL-7483 PG Haaksbergen

T: +31 (0)53 573 33 33 E: nl@texim-europe.com



Belgium

Zuiderlaan 14, box 10 B-1731 Zellik

T: +32 (0)2 462 01 00 E: belgium@texim-europe.com



UK & Ireland

St Mary's House, Church Lane Carlton Le Moorland Lincoln LN5 9HS

T: +44 (0)1522 789 555 E: uk@texim-europe.com



Germany Bahnhofstrasse 92

D-25451 Quickborn

T: +49 (0)4106 627 07-0 E: germany@texim-europe.com



Germany

Martin-Kollar-Strasse 9 D-81829 München

T: +49 (0)89 436 086-0 E: muenchen@texim-europe.com



Austria Warwitzstrasse 9 A-5020 Salzburg

T: +43 (0)662 216 026 E: austria@texim-europe.com



Nordic Stockholmsgade 45 2100 Copenhagen

T: +45 88 20 26 30 E: nordic@texim-europe.com



Martin-Kollar-Strasse 9 D-81829 München

T: +49 (0)89 436 086-0 E: italy@texim-europe.com

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www.texim-europe.com