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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<sup>™</sup> 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**



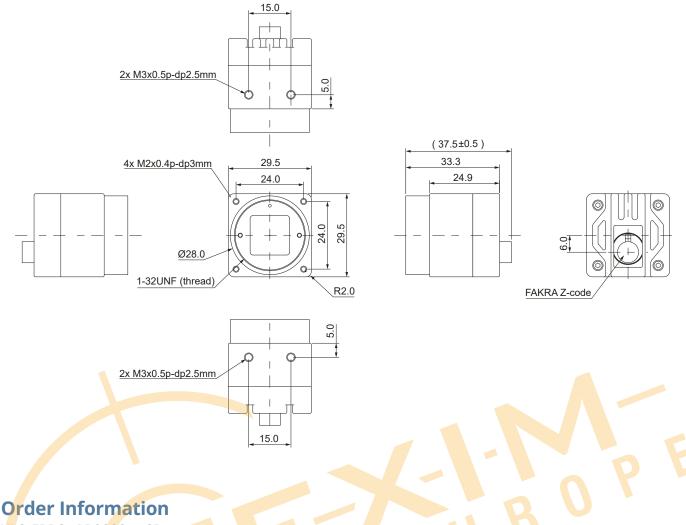


For more information: www.technexion.com sales@technexion.com

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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.





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