

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







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
	2560 x 1440 @ 30 fps 1920 x 1080 @ 60 fps 1280 x 720 @ 60 fps

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 ≤ 1.3W
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	VizionSDK

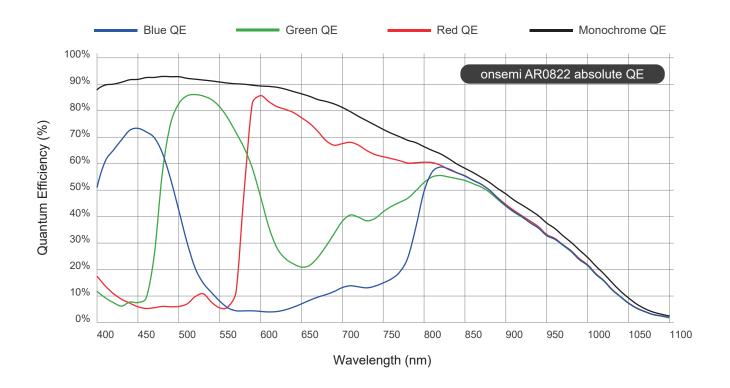
Environmental and Mechanical

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

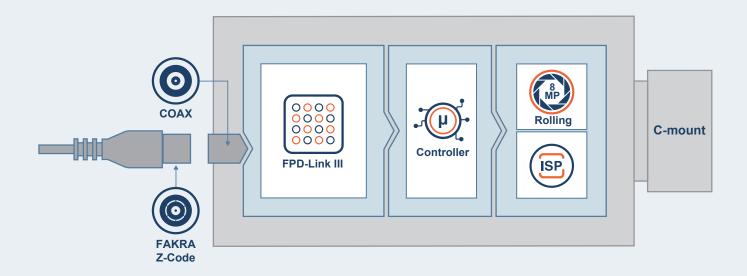
Certification and Compliance

Certification	Compliant with CE / FCC / RoHS /
	REACH directives

Spectral Characteristics

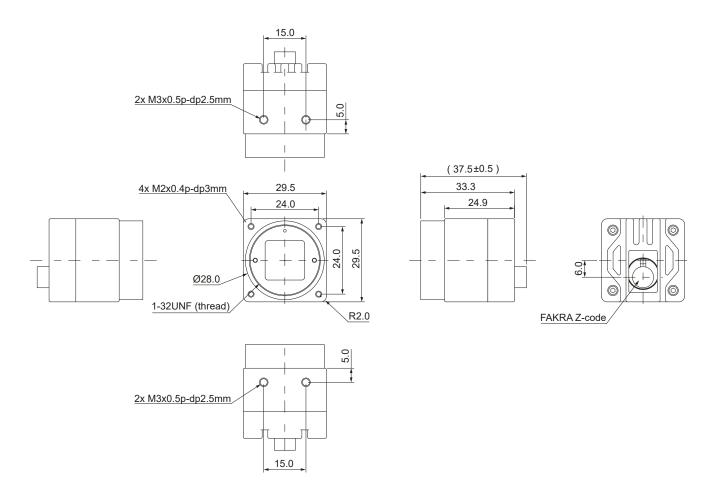


Block Diagram





Dimensions (units in mm)



Order Information

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)



For more information:

www.technexion.com

sales@technexion.com

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 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.





