

# VLS-GM2-AR0821-SL

- onsemi AR0821 8MP Rolling Shutter Sensor
- 4K HDR Imaging Capabilities
- Designed for Low Light Applications
- S-Mount for Interchangeable Lenses
- GMSL2<sup>™</sup> (Gigabit Multimedia Serial Link) interface
- 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 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)   |
| Maximum 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<br>(YUV422-UYVY) | 3840 x 2160 @ 15 fps<br>2560 x 1440 @ 30 fps<br>1920 x 1080 @ 60 fps<br>1280 x 720 @ 60 fps<br>640 x 480 @ 60 fps |
| Output Format                       | YUV422-UYVY<br>RGB888 / RGB565<br>RAW8 / RAW10 / RAW12  |

## **Camera Interface**

| Serial Link | GMSL2                 |
|-------------|-----------------------|
| Serializer  | MAX96717              |
| 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              |



VizionViewer™

VizionSDK

| Software Support |   |
|------------------|---|
| Platform Support | NVIDIA Jetson AGX Orin<br>NVIDIA Jetson Orin Nano / NX<br>NVIDIA Jetson Xavier NX<br>NVIDIA Jetson Nano<br>NXP i.MX95 |
| Operation System | Linux<br>Yocto  |
| Software         | VizionViewer™   |
| Development SDK  | VizionSDK   |

## **Environmental and Mechanical**

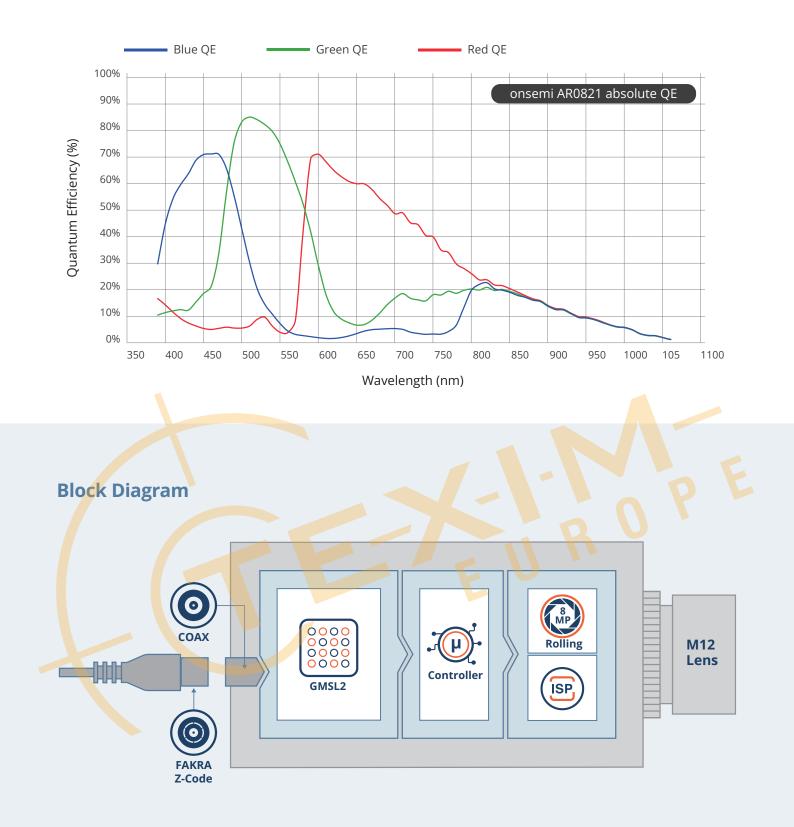
| Dimensions           | 29.5(W) x 29.5(H) x 28(D) mm  |
|----------------------|-------------------------------|
| Weight               | ≤ 45 grams                    |
| MTBF                 | 50,000 Hours                  |
| Shock                | 15G half-sine 11 ms duration  |
| Vibration            | 1 Grms random 5-500Hz hr/axis |
| Relative Humidity    | 10 to 90 %                    |
| Operating Temperatur | e -30°C to + 70°C             |
|                      |                               |

#### **Certification and Compliance**

| Certification | Compliant with CE / FCC / RoHS / |
|---------------|----------------------------------|
|               | REACH directives                 |

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# **Spectral Characteristics**



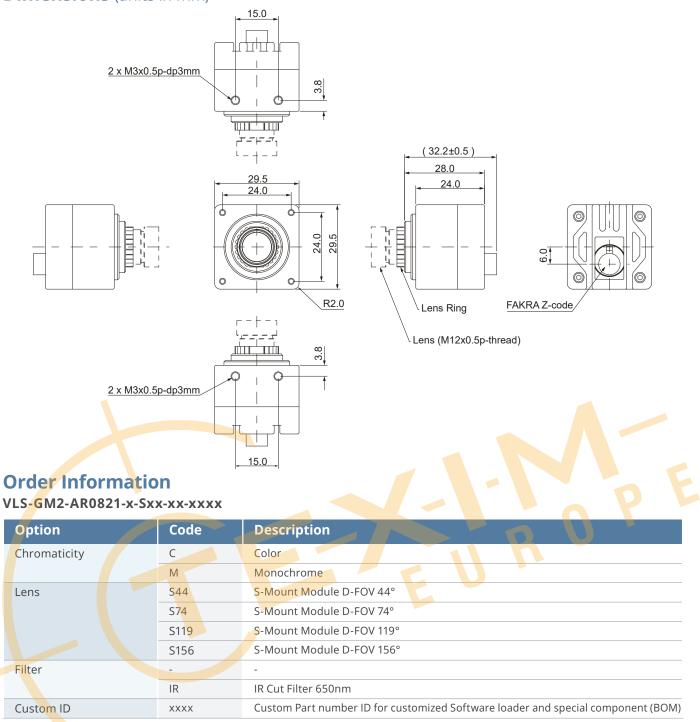


For more information: www.technexion.com sales@technexion.com

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## **Dimensions** (units in mm)



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**



# **GMSL2 Frame Grabbers**

The ease of usage, benefits and integration of a GMSL camera in embedded systems is often made complex by the lack of GMSL 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 GMSL interconnects.



#### 1-4 Port

Connect up-to 4 GMSL camera<mark>s to</mark> a single USB port on yo<mark>ur x8</mark>6 or Arm ba<mark>sed sys</mark>tem.



## UVC Compliant

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

## Autodetect

Zero configuration required to detect any specific TechNexion GMSL camera by the framegrabber.



## Software

Linux and Windows 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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