



VLS-GM2-AR0234-CB

- onsemi AR0234 2.3MP Global Shutter Sensor
- C-Mount for Interchangeable Lenses
- GMSL2™ (Gigabit Multimedia Serial Link) interface
- FAKRA Z-Code Automotive Connector
- Plug & Play with Linux OS & Yocto
- VizionViewer™ configuration utility
- VizionSDK for custom development



VizionSDK VizionViewer™

Camera Information

| | |
|-------------------------------------|---|
| CMOS Sensor | onsemi AR0234 |
| Active Pixels | 1920 (H) x 1200 (V) = 2.3 MP |
| Pixel Size | 3.0 µm x 3.0 µm |
| Illuminated Type | Front Side Illuminated (FSI) |
| Maximum S/N Ratio | 38 dB |
| Optical Format | 1/2.6" (Diagonal 6.8 mm) |
| Shutter Type | Global Shutter |
| Chromaticity | Color |
| Maximum Frame Rate (YUV422-UYVY) | 1920 x 1200 @ 60 fps 1920 x 1080 @ 60 fps 1280 x 720 @ 120 fps 640 x 480 @ 120 fps |
| Output Format | YUV422-UYVY RGB888 / RGB565 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 | 1920 x 1200 @ 60 fps ≤ 1.56W |
| Standby Power | ≤ 0.6W Standby |

Software Support

| | |
|------------------|---|
| Platform Support | NVIDIA Jetson AGX Orin NVIDIA Jetson Orin Nano / NX NXP i.MX95 NXP i.MX8M Plus Intel Arrow Lake Intel Panther Lake |
| Operation System | Linux Yocto |
| Software | VizionViewer™ |
| Development SDK | VizionSDK |

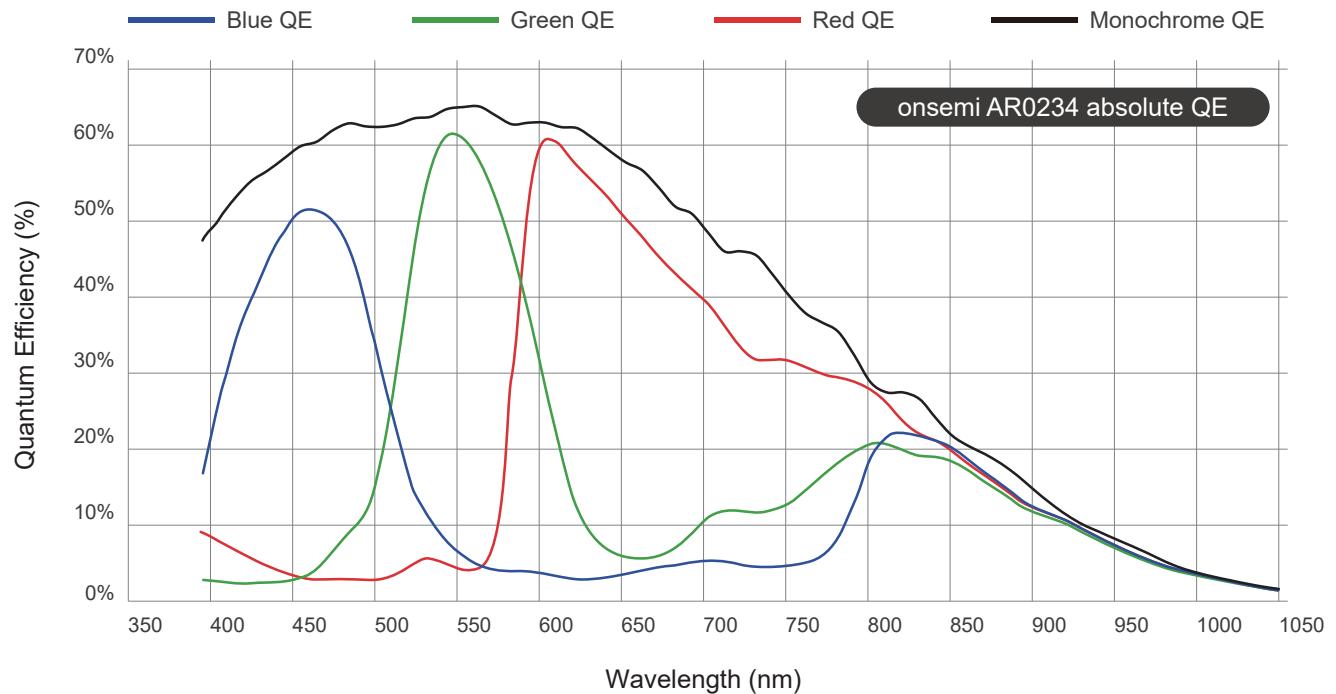
Environmental and Mechanical

| | |
|-----------------------|--------------------------------|
| Dimensions | 29.5(W) x 29.5(H) x 33.2(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 Temperature | -30°C to + 70°C |

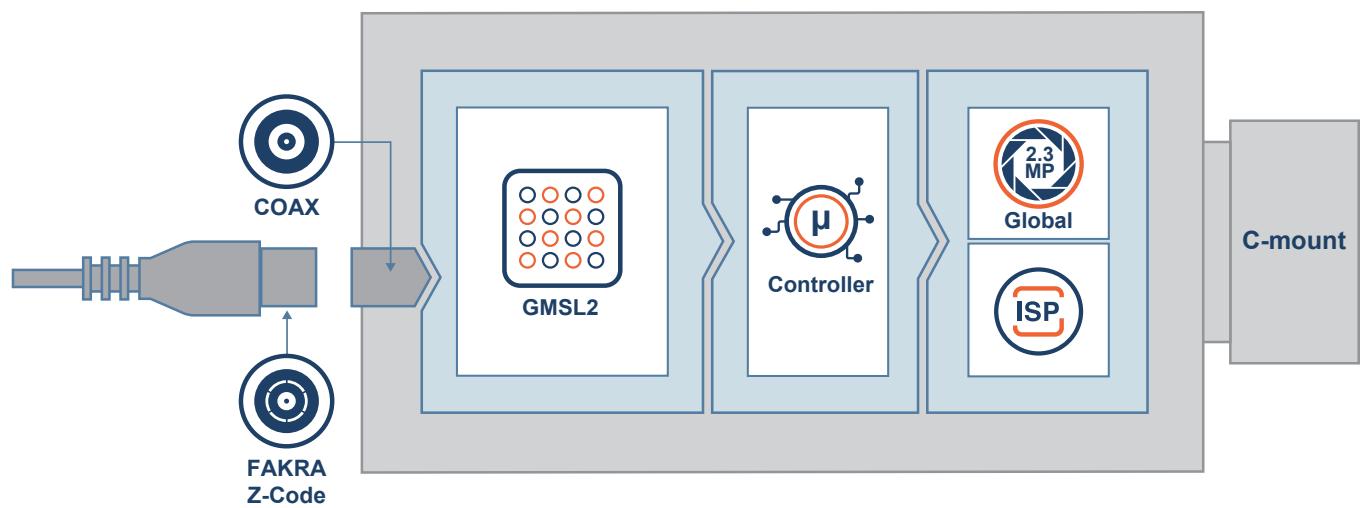
Certification and Compliance

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

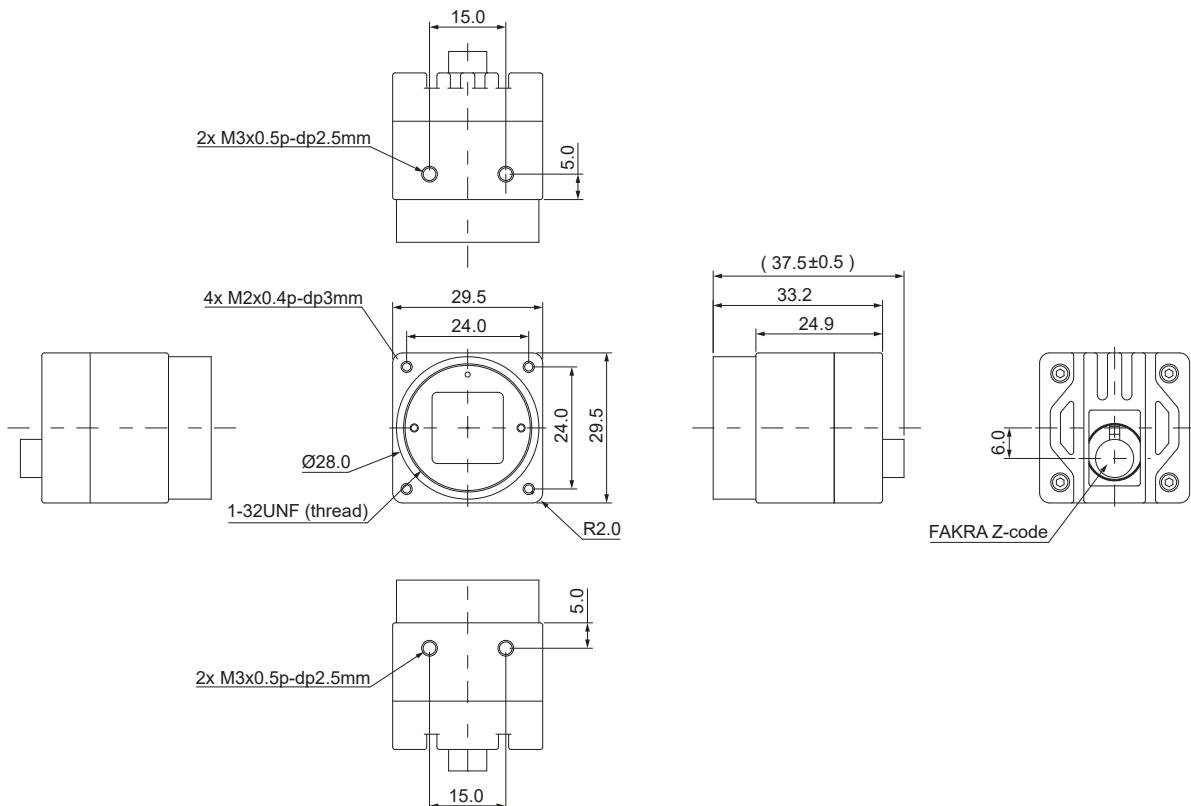
Spectral Characteristics



Block Diagram



Dimensions (units in mm)



Order Information

VLS-GM2-AR0234-x-CB-xx-xxxx

| Option | Code | Description |
|--------------|------|-----------------------|
| Chromaticity | C | Color |
| Filter | - | - |
| | IR | IR Cut Filter 650nm |
| Custom ID | xxxx | Custom Part number ID |

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)

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.



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 cameras to a single USB port on your x86 or Arm based system.



Software

Linux and Windows systems are supported.



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 GMSL camera by the framegrabber.



VizionSDK

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

