UVLS-FPD3-AR0234

- onsemi AR0234 2.3MP Global Shutter Sensor
- S-Mount for Interchangeable Lenses
- FAKRA Z-code Automotive Connector
- Plug & Play with Linux OS & Yocto
- VizionViewer[™] configuration utility
- VizionSDK for custom development



TechNexion INNOVATORS OF TECHNOLOGY



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 |

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 | 24.5(W) x 24.5(H) x 30(D) mm |
|-----------------------|------------------------------|
| Weight | ≤ 20 grams |
| Operating Temperature | e -30°C to + 70°C |

Certification and Compliance

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

Camera Interface

| Serializer | TI DS90UB953 |
|------------|-----------------------|
| Connector | FAKRA SMB Jack Z-Code |

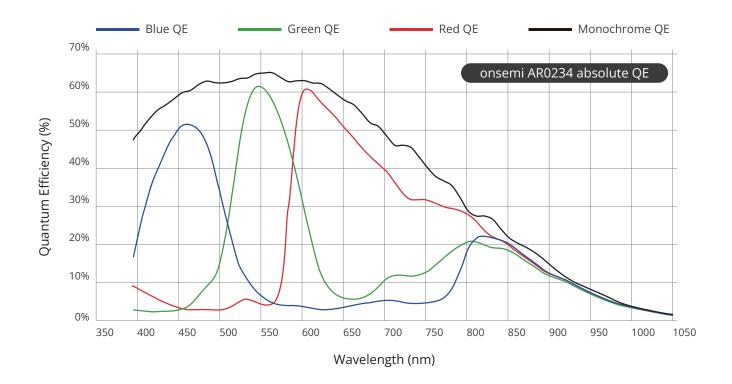
FPD-Link III

Power

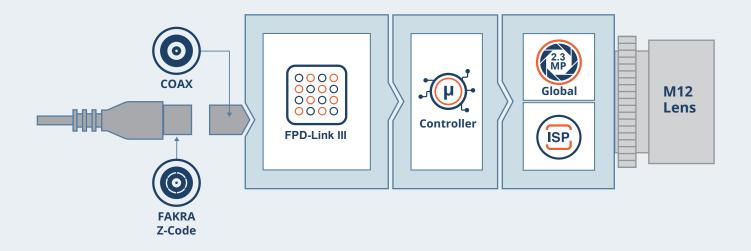
Serial Link

| Power over Coax | 10.8V - 26.4V |
|-------------------|------------------------------|
| Power Consumption | 1920 x 1200 @ 60 fps ≤ 1.25W |
| Standby Power | ≤ 0.1W Standby |
| | |

Spectral Characteristics



Block Diagram

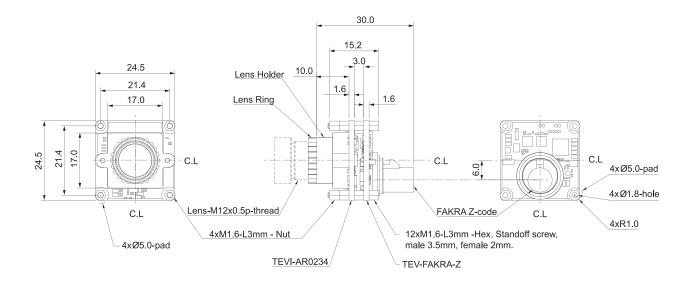




For more information: www.technexion.com sales@technexion.com

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Dimensions (units in mm)



Order Information UVLS-FPD3-AR0234-x-Sxx-xx-xxxx

| Option | Code | Description |
|--------------|------|--|
| Chromaticity | С | Color |
| Lens | S32 | S-Mount Module D-FOV 32° |
| | S83 | S-Mount Module D-FOV 83° |
| | S128 | S-Mount Module D-FOV 128° |
| Filter | - | - |
| | IR | IR Cut Filter 650nm |
| Custom ID | хххх | 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.



245-MOUNT-BRACKET



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



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Custom Lens Solutions



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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