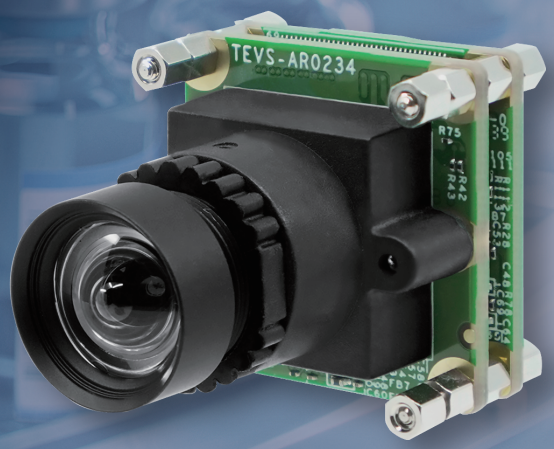
TechNexion
INNOVATORS OF TECHNOLOGY

UVLS3-AR0234

- onsemi AR0234 2.3MP Global Shutter Sensor
- S-Mount for Interchangeable Lenses
- FAKRA Automotive Connector
- Plug & Play with Linux OS & Yocto
- Comes with VizionViewer™ Configuration Utility and VizionSDK



Specifications

Camera Information

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

Camera Interface

Connector	FAKRA SMB Jack Z-Code
Serial Link	FPD-Link III

Power

Supply Voltage	12V ± 5%
Power Consumption	UYVY 1920 x 1200 @ 60 fps ≤ 1.25W
Standby Power	≤ 0.1W Standby

Software Support

Platform Support	x86 Intel / AMD NXP i.MX8M Mini / Plus NXP i.MX93 TI Sitara™ AM62x / AM62A TI Jacinto™ TDA4VM / TDA4VA / TDA4VH NVIDIA Jetson Nano NVIDIA Xavier NX NVIDIA Orin Nano/NX
Operation System	Linux Yocto
Software	VizionViewer™
Development SDK	VizionSDK

Environmental and Mechanical

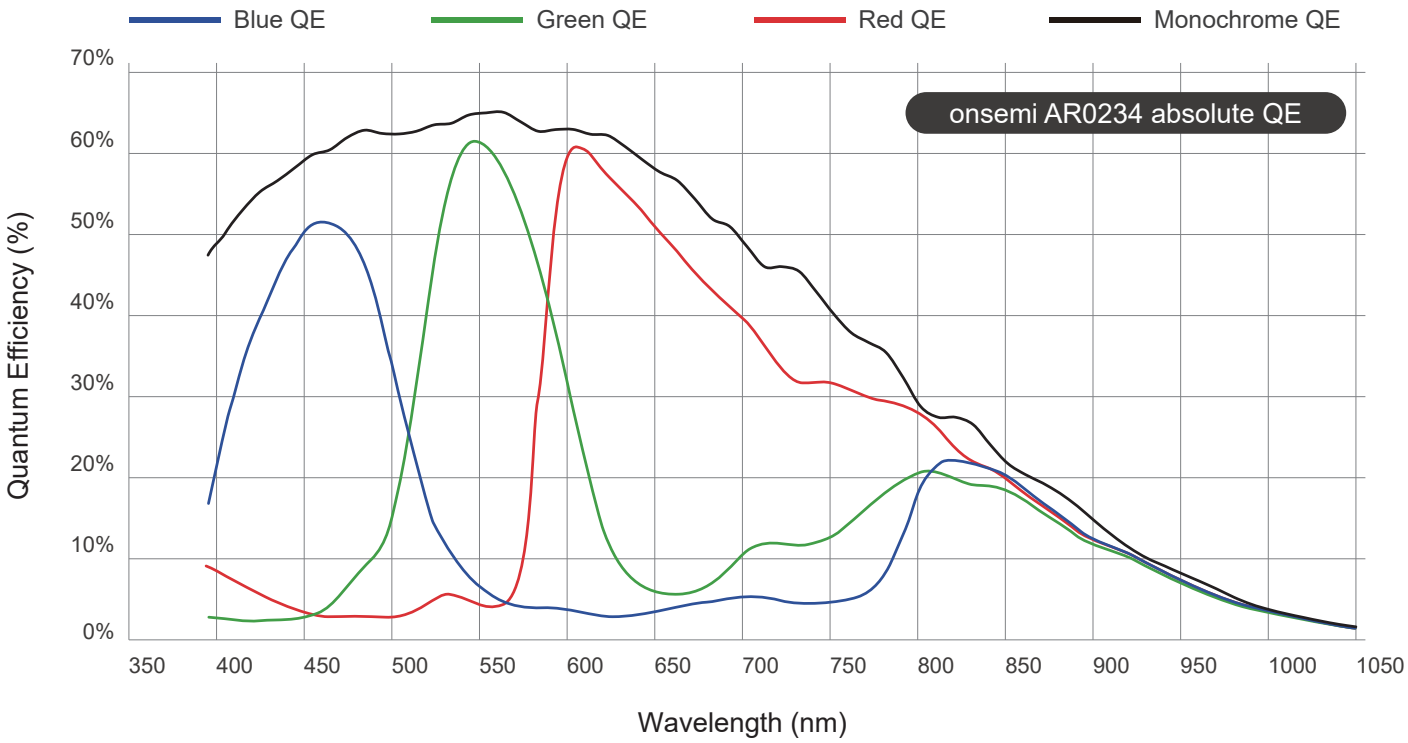
Dimensions	24.5(W) x 24.5(H) x 30.0(D) mm
Weight	20 grams
Operating Temperature	-30°C to +70°C

Certification and Compliance

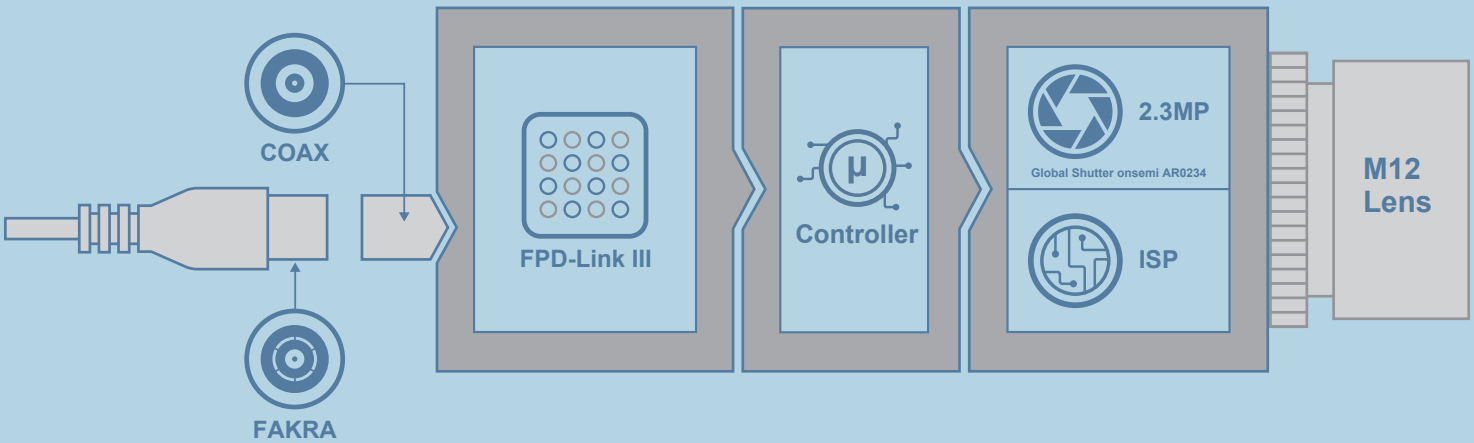
Certification	Compliant with CE / FCC / RoHS / REACH directives

2024-06-28 – All specifications are subject to change without notice. © TechNexion – All rights reserved worldwide.

Spectral Characteristics



Block Diagram

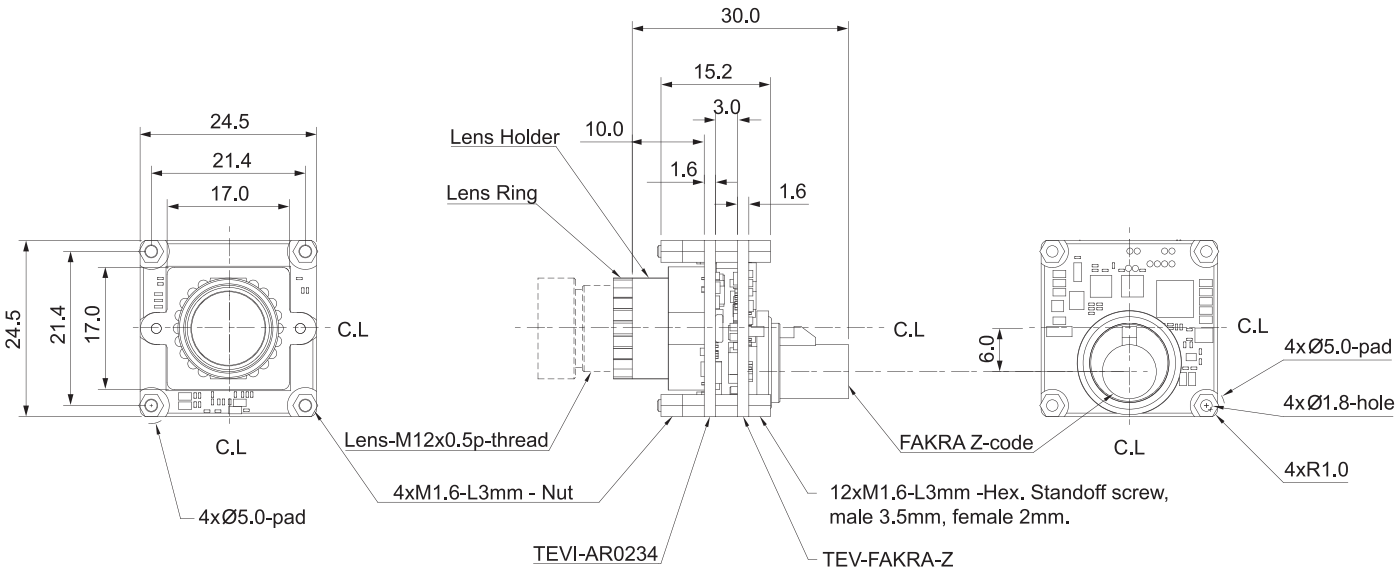


TechNexion
INNOVATORS OF TECHNOLOGY

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

2024-06-28 – All specifications are subject to change without notice. © TechNexion – All rights reserved worldwide.

Dimensions (units in mm)



Order Information

UVLS3-AR0234-x-Sxx-xx

Part Number Rules

Option	Code	Description
Chromaticity	C	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

For further customization or questions about orders, contact your TechNexion sales representative.

Optional Accessories

245-MOUNT-BRACKET
An easy to attach A-Mount bracket
for TechNexion camera board modules.



245-MOUNT-BRACKET



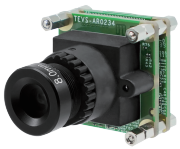
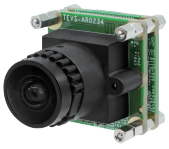
245-MOUNT-BRACKET on tripod
(tripod not included)

TechNexion
INNOVATORS OF TECHNOLOGY

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

2024-06-28 – All specifications are subject to change without notice. © TechNexion – All rights reserved worldwide.

Lens Information

	 UVLS3-AR0234-C-S32-IR	 UVLS3-AR0234-C-S83-IR	 UVLS3-AR0234-C-S128-IR
Focus Type	Fixed Focus	Fixed Focus	Fixed Focus
Focal Length	12 mm	3.9 mm	2.87 mm
Aperture	F2	F2.8	F2.6
Lens D-FOV	34.0°	96.0°	146.0°
Lens H-FOV	28.2°	80.0°	112.0°
Lens V-FOV	17.5°	60.0°	82.0°
Module D-FOV	31.8° ± 5%	82.8° ± 5%	128.3° ± 5%
Module H-FOV	26.9° ± 5%	73.4° ± 5%	109.7° ± 5%
Module V-FOV	16.8° ± 5%	50.1° ± 5%	67.0° ± 5%
TTL	23.2 mm	22 mm	21 mm
BFL	7.3 mm	4.54 mm	5.27 mm
MOD	0.3 m	0.3 m	0.3 m
Distortion	<-2.5%	<1.26%	<-20.0%
IR-Filter	650 nm	650 nm	650 nm

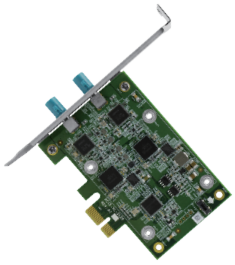
FPD-Link III Frame Grabbers

Adding TechNexion FPD-Link III cameras to an existing x86 Intel or AMD based system couldn't be easier by using our full range frame grabber cards.

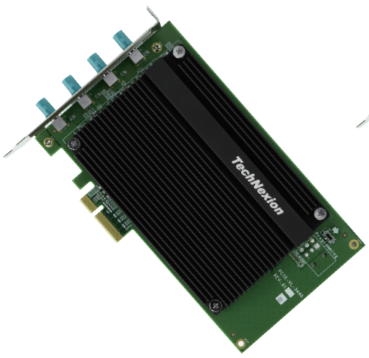
- **Available in 1 / 2 / 4 / 8 port FPD-Link III camera frame grabber configuration**
- **Fits in a standard PCI Express Gen 3 slot**
- **Plug-n-Play driver-less UVC based solution**
- **Complete Fanless design with brushed aluminium thermal solution**
- **Comes with TechNexion VizionSDK**



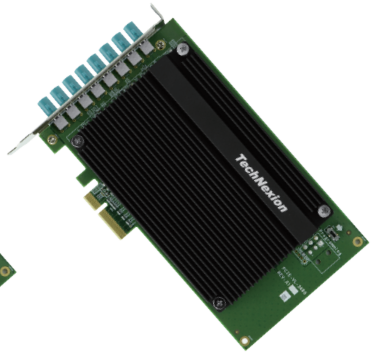
UVC-VL-3100



PCIE-VL-3120



PCIE-VL-3440



PCIE-VL-3480

TechNexion
INNOVATORS OF TECHNOLOGY

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

2024-06-28 – All specifications are subject to change without notice. © TechNexion – All rights reserved worldwide.

Nvidia Orin Fanless AI Computing



x8



- Nvidia Orin Nano / NX Systems
- Up-to 8 FPD-Link III cameras
- Nvidia Jetpack driver integration
- TechNexion VizionSDK

TRAQ-4VM Robotic AMR Solutions



x8



- TI TDA4VM
- Up-to 8 FPD-Link III cameras
- FPD-Link III Display
- Single Pair Ethernet (SPE) sensor network extension
- Linux / Debian support
- TechNexion VizionSDK

i.MX8M Plus HMI Solutions



x2



- NXP i.MX8M Plus
- Available as 15” / 15.6” / 21.5” Display solution
- Up-to 2 FPD-Link III cameras
- FPD-Link III remote Display
- Linux / Debian / Android support
- TechNexion VizionSDK

i.MX8M Plus Edge Computing



x2



- NXP i.MX8M Plus
- Available with By-pass Ethernet solution
- Extensive low-speed I/O availability
  - GPIO / UART / CAN / USB
- Up-to 2 FPD-Link III cameras
- Linux / Debian / Android support
- TechNexion VizionSDK

TechNexion
INNOVATORS OF TECHNOLOGY

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

2024-06-28 – All specifications are subject to change without notice. © TechNexion – All rights reserved worldwide.