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# VCI-AR0821-CB

- onsemi AR0821 8MP Rolling Shutter Sensor
- 4K HDR Imaging Capabilities
- Designed for Low Light Applications
- C-Mount for Interchangeable Lenses
- UVC USB Type-C 5 Gbps Connector
- Plug & Play with Windows & Linux OS
- 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) = 8MP
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 (MJPEG)	3840 x 2160 @ 30 fps 2560 x 1440 @ 60 fps 1920 x 1080 @ 60 fps 1280 x 720 @ 60 fps 640 x 480 @ 60 fps
Maximum Frame Rate (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
Output Format	MJPEG (JPG) UYVY

#### **Camera Interface**

Connector

USB Type-C 5 Gbps



VizionSDK VizionViewer™

Power	
Supply Voltage	5V ± 5%
Power Consumption	<mark>3840 x 2160 @</mark> 15 fps ≤ 1.6W
Standby Power	≤ 0.1W Standby
Software Support	
Operation System	UVC Plug-and-play Windows 10/11 Linux

	Yocto
Software	VizionViewer™
Development SDK	VizionSDK

#### **Environmental and Mechanical**

Dimensions	29.5(W) x 29.5(H) x 33.8(D) mm
Weight	≤ 39 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**





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

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# Dimensions (units in mm)



A12

**B1** 

## **Connector Pin Definition**

A1

**B12** 

No.	Pin Define	No.	Pin Define
A1	GND	B12	GND
A2	TXP1	B11	RXP1
A3	TXN1	B10	RXN1
A4	VBUS1	B9	VBUS3
A5	CC1	B8	SBU2
A6	DP1	B7	DN2
A7	DN1	B6	DP2
A8	SBU1	B5	CC2
A9	VBUS2	B4	VBUS4
A10	RXN2	B3	TXN2
A11	RXP2	B2	TXP2
A12	GND	B1	GND



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## **Order Information**

## VCI-AR0821-x-CB-xx-xxxx

Option	Code	Description
Chromaticity	С	Color
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)

## **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.





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Please contact us if you have any questions about the contents of the datasheet.

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