

RZ Ecosystem Partner Solution

TechNexion MIPI-CSI2 Camera



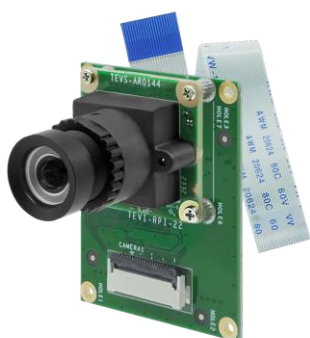
Solution Summary

TechNexion Embedded Vision Camera Sensors are available from 1MP to 13MP with rolling or global shutter functionality. The best of all. All TEVS sensors are pin-to-pin compatible. These sensors are engineered to be compact, requiring minimal space yet delivering maximal functionality. Support of our TEVS Embedded Camera Sensors is available for Renesas [RZ/V2H](#) and [RZ/V2N](#) MPU evaluation kits, is equipped with a unified connector designed to facilitate effortless integration into your devices, guaranteeing a seamless integration experience. Provide various standard camera module solution for time to market.

Features/Benefits

- Support Global Shutter to secure sharp, instantaneous captures and Rolling Shutter , cost effective, for various application.
- Built-in ISP with Image fine tuning. Like Color correction, Lens calibration, over-exposure management.
- Lens Options support standard Lens S-Mount interface with interchangeable lenses, offering versatile solutions tailored to various applications.
- MIPI Interface enable connect to SoC and able config to support 2/4 Lane for different SoC.
- Temperature range -30 to +70 degree Celsius

Diagrams/Graphics



TechNexion EVK RP122

< 2 MP	5 MP	8 MP	10 ~ 20 MP
 AR0144 Global Color	 AR0521 Rolling Color	 AR0821 Rolling Color	 AR1335 Rolling Color
 AR0145 Global Mono	 AR0522 Rolling Color/Mono	 AR0822 Rolling Color/Mono	
 AR0234 Global Color		 AR0830 Rolling Color/Mono	
 AR0235 Global Mono			

Target Markets and Applications

- Smart City / IoT
- Automotive / e-cockpit
- Smart Agriculture
- Robotics / Drones

Product Information



TEVS-AR1335-C-S85-IR-RPI22

Sensor	onsemi AR1335
Shutter	Rolling
Megapixels	13MP
Chromaticity	Color
Interface	RPI22
Module DFOV	85.0°

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TEVS-AR0822-C-S150-IR-RPI22

Sensor	onsemi AR0822
Shutter	Rolling
Megapixels	8MP
Chromaticity	Color
Interface	RPI22
Module DFOV	150.0°

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TEVS-AR0822-M-S150-IR-RPI22

Sensor	onsemi AR0822
Shutter	Rolling
Megapixels	8MP
Chromaticity	Monochrome
Interface	RPI22
Module DFOV	150.0°

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TEVS-AR0822-M-S72-IR-RPI22

Sensor	onsemi AR0822
Shutter	Rolling
Megapixels	8MP
Chromaticity	Monochrome
Interface	RPI22
Module DFOV	72.0°

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TEVS-AR0822-C-S42-IR-RPI22

Sensor	onsemi AR0822
Shutter	Rolling
Megapixels	8MP
Chromaticity	Color
Interface	RPI22
Module DFOV	42.0°

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TEVS-AR0822-M-S42-IR-RPI22

Sensor	onsemi AR0822
Shutter	Rolling
Megapixels	8MP
Chromaticity	Monochrome
Interface	RPI22
Module DFOV	42.0°

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TEVS-AR0822-C-S108-IR-RPI22

Sensor	onsemi AR0822
Shutter	Rolling
Megapixels	8MP
Chromaticity	Color
Interface	RPI22
Module DFOV	108.0°

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TEVS-AR0822-M-S108-IR-RPI22

Sensor	onsemi AR0822
Shutter	Rolling
Megapixels	8MP
Chromaticity	Monochrome
Interface	RPI22
Module DFOV	108.0°

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TEVS-AR0822-C-S72-IR-RPI22

Sensor	onsemi AR0822
Shutter	Rolling
Megapixels	8MP
Chromaticity	Color
Interface	RPI22
Module DFOV	72.0°

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