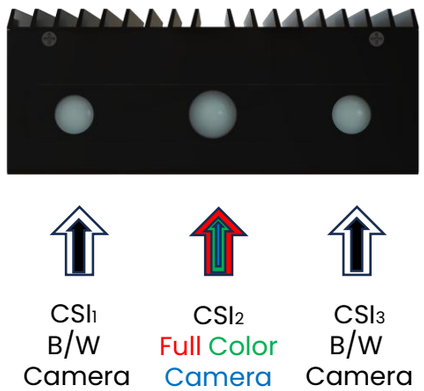
AI.DEV RZ/V2H

The AI.DEV comes with an industrial board hosting a SOM based on the Renesas RZ/V2H. Its three integrated CSI cameras make the device well-suited for artificial intelligence applications.

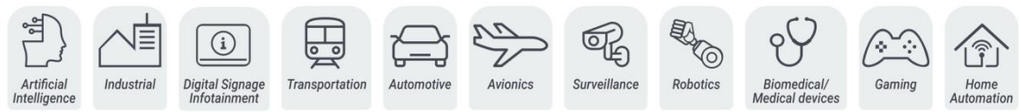




HIGHLIGHTS

- Single CSI camera, full color
- Double CSI camera B/W for Stereoscopic AI vision
- Full configuration, 3x CSI camera, 2x B/W (stereoscopic vision) + 1x full color

APPLICATIONS



FEATURES

SUPPORTED SOM	• **TIA format SOM, based on RENESAS® RZ/V2H**
CORES	• 4x Arm Cortex-A55 on-chip FPU, up to 1.8 GHz • 2x Arm Cortex-R8 on-chip FPU, up to 800 MHz • 1x Arm Cortex-M33 on-chip FPU, up to 200 MHz
MEMORY	• Up to 16 GB LDDR4x@3200MTs
AI & GRAPHICS	• AI Accelerator DRP-AI3 (8TOPS/dense, 80TOPS/sparse) • Mali™-G31 (GE3D) • Mali™-C55 (ISP) • OpenGL ES™ 1.1, 2.0, and 3.2 • OpenCL 2.0
VIDEO PROCESSING	• H.265/H.264 decode and encode • 1920 x 1080 @60 H.264 • 3840 x 2160 @30 H.265
PERIPHERAL INTERFACES	• Console on USB C to UART • SD card on SDIO bus • Console on UART (internal)
VIDEO INTERFACES	• HDMI output up to 4K @ 60Hz • 3x MIPI CSI 4-lane camera input
NETWORKING	Gb Ethernet interface
POWER SUPPLY	• Via Poe interface • +24V DC
OPERATING SYSTEM	yocto PROJECT
OPERATING TEMPERATURE*	Industrial (-40°C to 85°C)
DIMENSIONS	100 x 136.5 x 55 mm

* Valid for all components except CPU. Customer shall consider junction temperature for CPU. Temperature will widely depend on application. Specific cooling solutions could be necessary for the final system.

ENGICAM
EMBEDDED SOLUTIONS

AI.DEV RZ/V2H

CABLE MAP

