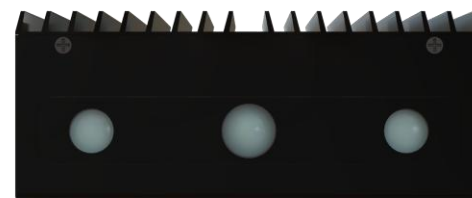


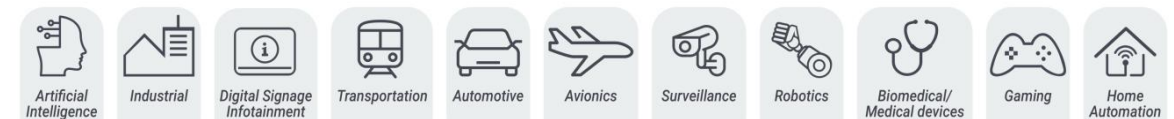
The AI.DEV comes with an industrial board hosting a SOM based on the Renesas RZ/V2H. Its three integrated CSI cameras make the device well-suited for artificial intelligence applications.



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



OPERATING TEMPERATURE*

Industrial (-40°C to 85°C)



DIMENSIONS

100 x 136.5 x 55 mm

CABLE MAP

