AVNET®

RZ Ecosystem Partner Solution
Avnet RZBoard V2L
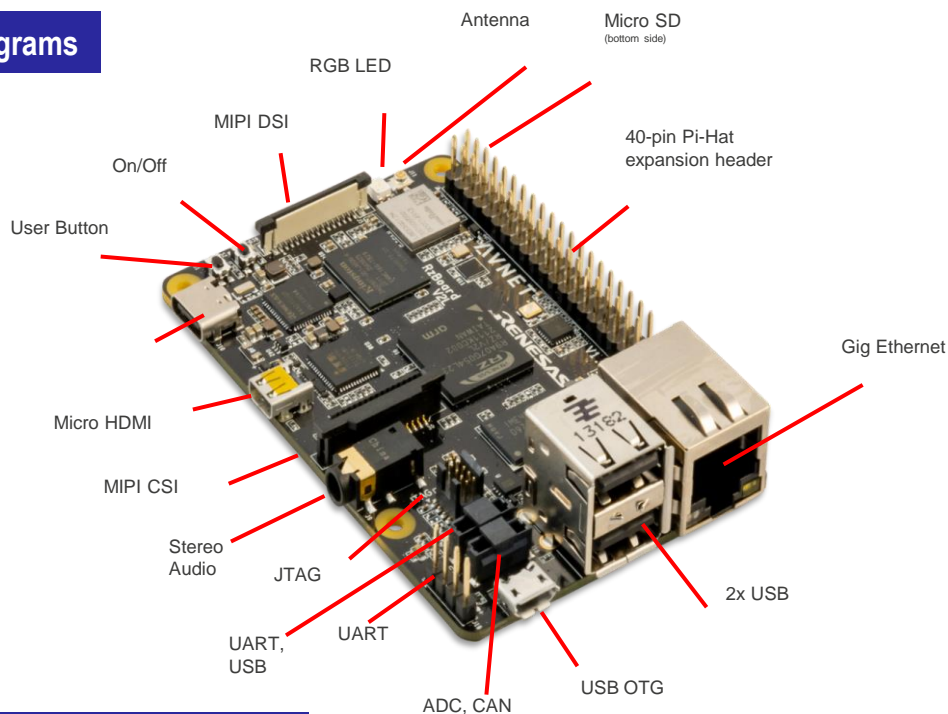
RENESAS RZ READY

Solution Summary

Avnet RZBoard V2L is a power-efficient, vision-AI accelerated development board, optimized for AI/ML applications. Its compact Raspberry Pi single board computer form-factor features a versatile set of expansion interfaces, facilitating the use of hardware accessories like HDMI or MIPI display, camera and HAT/shield add-on boards, providing an ideal platform for software development and evaluation of the Renesas RZ/V2L multicore processor family.

Features / Benefits

- 2x Arm Cortex-A55 @1.2GHz, 1x Arm Cortex-M33
- DRP-AI Accelerator, 3D GPU, H.264 Enc/Dec
- Gigabit Ethernet, 802.11ac Wi-Fi, Bluetooth 5.0
- 2GB DDR4, 32GB eMMC, microSD, 16MB QSPI
- 65 mm × 56.5 mm board-size, HAT 40-pin header
- Connectors for 4x 12bit ADC, UART, CAN

- USB 2.0 (2x type-A, 1x OTG MicroUSB)
- CAN-FD (includes CAN transceiver)
- HDMI and MIPI-DSI display interfaces
- MIPI CSI camera interface
- Audio Codec and 3.5mm stereo jack
- CIP Linux kernel with 10-year support

Board/ Diagrams

Target Markets and Applications

- Single Board Computer
- Cost-efficient accelerated vision AI
- Surveillance camera with recognition

- Power-efficient Edge AI/ML
- Entry access-control systems
- Smart Home appliances with AI

avnet.me/RZBoard

2022.10

AVNET®

Reach Further™

Avnet is a global leader of electronic component services and distribution. Besides electronic component distribution, they provide kits and complete manufacturing services. Avnet design services focuses on the design, prototyping, manufacturing and component management. Avnet provides the RZBoard V2L as an evaluation and development platform but can also provide the board as a ready-to-use solution with relevant regulatory certifications. Further customization services can be provided to meet specific customer requirements.

Avnet offers :
• Customize to a unique specifications
• Connect a product to its full IoT potential
• Meet global certification requirements
• Integrate applications at the system level

For more information or to order visit:

avnet.com/shop/us/m/renesas-electronics/
avnet.me/rzboard

1-800-408-8353
onlinesupportUS@avnet.com