



RZ Ecosystem Partner Solution IMDT V2H SBC



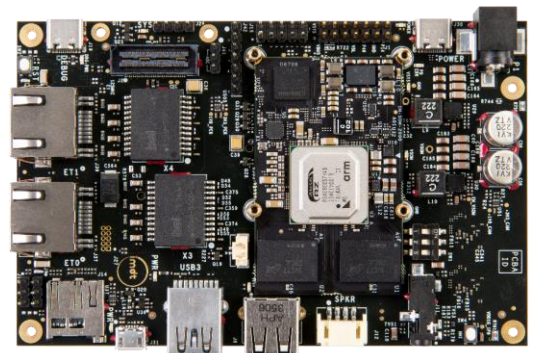
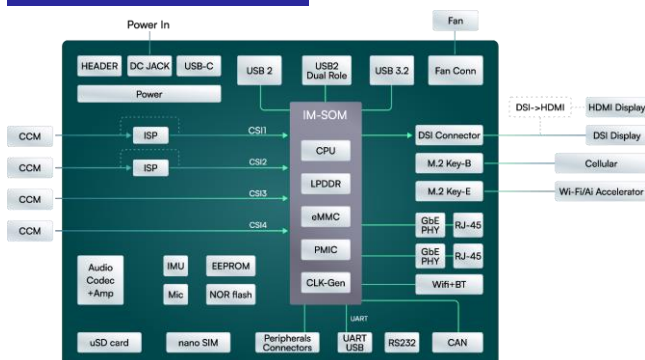
Solution Summary

The IMDT V2H SBC (Single Board Computer) carrier board transforms the IMDT V2H SOM into a compact, high-performance mini-computer. It offers a fully customizable small form factor with a cost-effective system design ideal for robotics, drones, and smart city projects. Powered by Renesas' [RZ/V2H](#) processor, The V2H SBC provides extensive assembly options and comprehensive onboard connectivity, tailored to meet specific customer needs. This energy-efficient solution occupies minimal space, making it perfect for developers aiming to create compact and advanced applications efficiently.

Features/Benefits

- Based on [IMDT V2H SOM](#)
- Multi-Camera Solution by up to 4 x 4-lane MIPI CSI
- Full Connectivity
 - M.2 NGFF Key-E for Wi-Fi module or AI accelerator
 - M.2 NGFF Key-B for cellular module
 - Wi-Fi 802.11a/b/g/n + Bluetooth 5.2 BR/EDR/LE
 - 2 x RJ-45 , 1000Base-T, optional PoE
- Small Form Factor (WxLxH): 125 x 80 x 20mm
- Low Power SBC without heat sink
- 6-DOF IMU,3-Axis magnetometer for motion sensing
- IMDT's V2H Evaluation Kit is a comprehensive package that includes the V2H SBC along with essential accessories such as a Full HD USB camera and two MIPI cameras.

Diagrams/Graphics



Target Markets and Applications

- Robotics and drones
- IoT applications
- Industrial applications
- Smart retail
- Medical
- Smart city
- Smart home

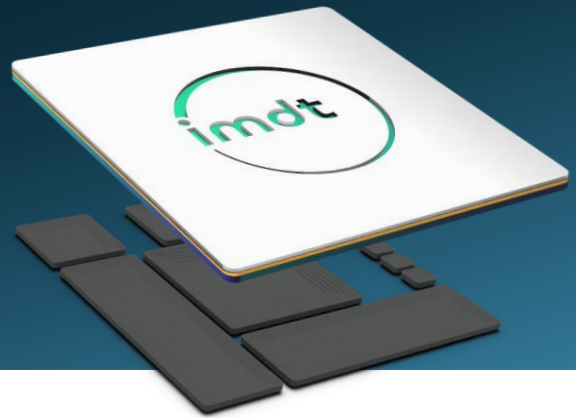
www.imd-tec.com/products/v2h-sbc



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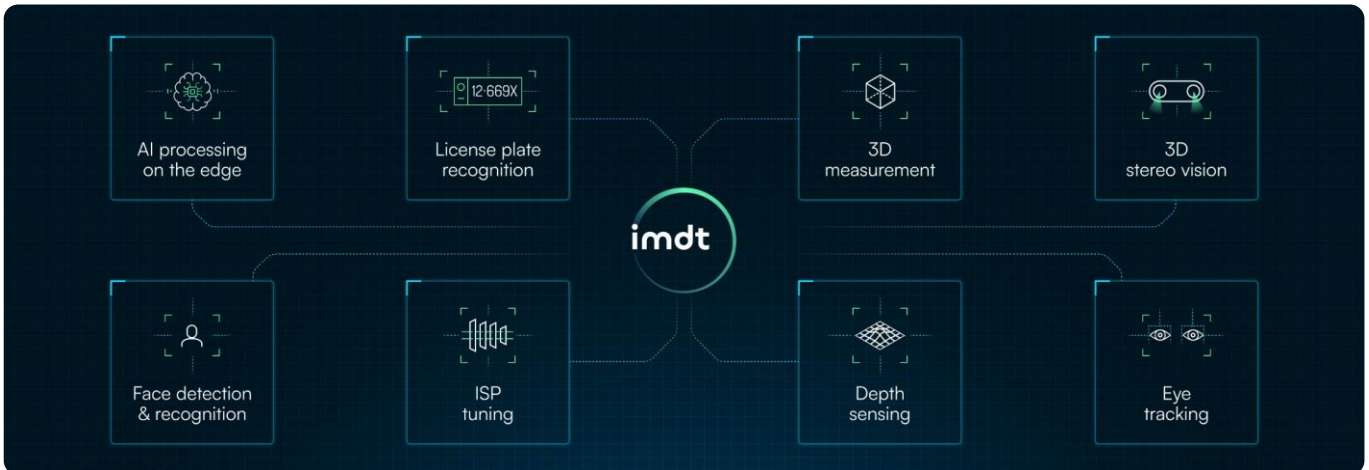
3D Measuring System
Calibration algorithm
Depth algorithm



Face recognition
ML customizable design

- Accelerate product time-to-market
- Reduced cost of development and manufacture
- Simplified production
- Optimized performance
- Seamless customization of algorithms, devices and systems
- On the platform of your choice

IMDT Solutions Overview



Evaluation Kit

IMDT's V2H Evaluation Kit, based on the IMDT V2H SBC (Single Board Computer), is a high-performance mini-computer designed for a variety of applications in robotics, drones, and smart city projects. The kit offers a user-friendly board with comprehensive onboard connectivity, providing developers with an energy-efficient solution that occupies minimal space.

The V2H EVK can serve as a comprehensive development platform for both evaluation and application development purposes. The kit offers an excellent demonstration of the V2H SOM and SBC connectivity features and performance.

