

RZ Ecosystem Partner Solution IMDT V2H & V2N SBC



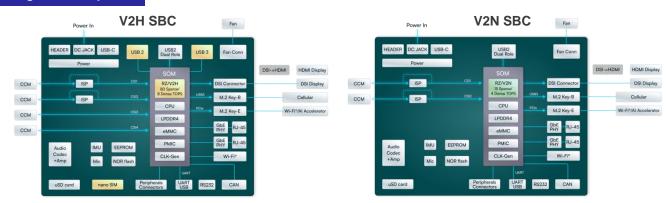
Solution Summary

The IMDT V2H and V2N SBCs (Single Board Computers) carrier board transforms IMDT SOMs based on Renesas RZ/V2H and RZ/V2N into powerful, compact mini-computers. Designed for Al-driven vision applications, these SBCs provide an optimal balance of performance, efficiency, and cost while offering extensive assembly options and comprehensive onboard connectivity to meet diverse development needs. Their energy-efficient design and small footprint make them the ideal choice for developers building compact, high-performance applications.

Features/Benefits

- Muti-Camera Solution by multiple 4-lane MIPI CSI-2
- Full Connectivity
 - M.2 NGFF Key-E for Wi-Fi module or Al accelerator
 - · M.2 NGFF Key-B for cellular module
 - · Wi-Fi 4, Dual-band
 - 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
- Quick prototyping with IMDT's V2H & V2N Evaluation Kit

Diagrams/Graphics



Target Markets and Applications

- Robotics and drones
- IoT applications
- · Industrial applications
- · Smart retail
- Medical

- Smart city
- Smart home

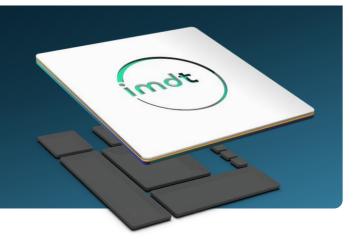
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IMDT Solutions

Take your innovations to design, development & manufacturing

we tailor end-to-end solutions that transform technology aspirations into cutting-edge applications



Design



Development



Manufacturing

IMDT IPs:



3D Measuring System Calibration algorithm Depth algorithm



Face recognitionML 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 and V2N Evaluation Kit, based on the IMDT V2H SBC (Single Board Computer) and V2N SBC, 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 and V2N Evaluation Kit can serve as a comprehensive development platform for both evaluation and application development purposes. The kit offers an excellent demonstration of the each SOM and SBC connectivity features and performance.

