

# RZ Ecosystem Partner Solution

## AMEC Open Standard Module (OSM)



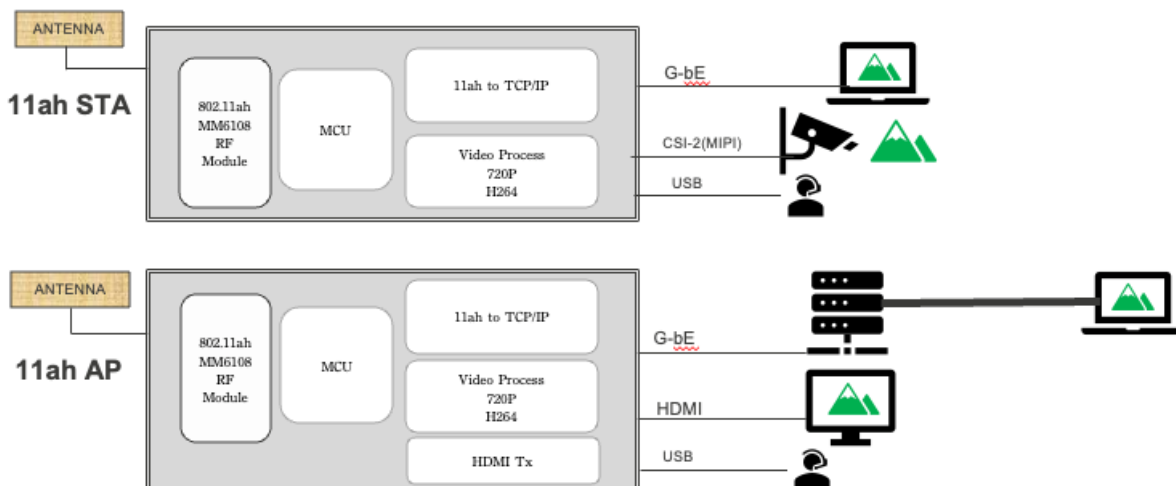
### Solution Summary

AMEC Sparrow-820 is designed by the specification of Open Standard Module (OSM) V1.1 to provide a compacted System On Module (SOM) solution based on Renesas high-performance [RZ/G2L](#) processor. With Sub-G Wi-Fi HaLow module, Sparrow-820 is able to provide IEEE802.11ah communication capability to achieve audio and video transmission up to Km level for long range coverage.

### Features/Benefits

- OSM-L compliant, compacted System On Module (SoM)
- ARM Cortex® - A55 (1.2GHz) x2 & ARM Cortex® - M33 (200MHz) x1
- 2GB DDR & 64GB eMMC Flash
- ARM Mali® - G31 3D Graphics Engine & H.264 Video CODEC Engine
- MIPI-CSI, MIPI-DSI, G. Ethernet, USBs, CANs, UARTs, I<sup>2</sup>Cs, SPIs, GPIOs, PWMs, ADCs, SDIOs
- Integrated Morse Micro 802.11ah HaLow, channel bandwidth up to 8MHz for Km distance
- Video /Audio transmission, H.264 compression for 720p / 3Mbps video transmission
- VLP package combines CIP Linux and Linux basic software, minimize the Linux maintenance resources.

### Diagrams/Graphics



### Target Markets and Applications

- Drones
- Wireless cameras
- Industrial automation
- Home automation
- Access control
- Mobile devices
- Automotive devices
- Healthcare

Company name	ALLTEK MARINE ELECTRONICS CORP.
Headquarter	14F-2, No. 237, Sec. 1, Datong Rd., Xizhi District, New Taipei City, 22161, Taiwan +886-2-8691-8568
Established	Sep. 2006
Chairman	Mr. Wu, Yi-Wing (Louis)
Scope of Business	<ul style="list-style-type: none"> <li>● Development and manufacturing for full range marine AIS products, including Class A / B, Receiver, AtoN, SART, MOB, ECS</li> <li>● Open Standard Module (OSM)</li> <li>● Unmanned aerial vehicle</li> <li>● Navigation, Communications, Search &amp; Rescue</li> <li>● Services of Design, Development, Manufacturing, &amp; System Integration</li> </ul>
Number of Employees	70+ (May 2023)