AMEC

RZ Ecosystem Partner Solution
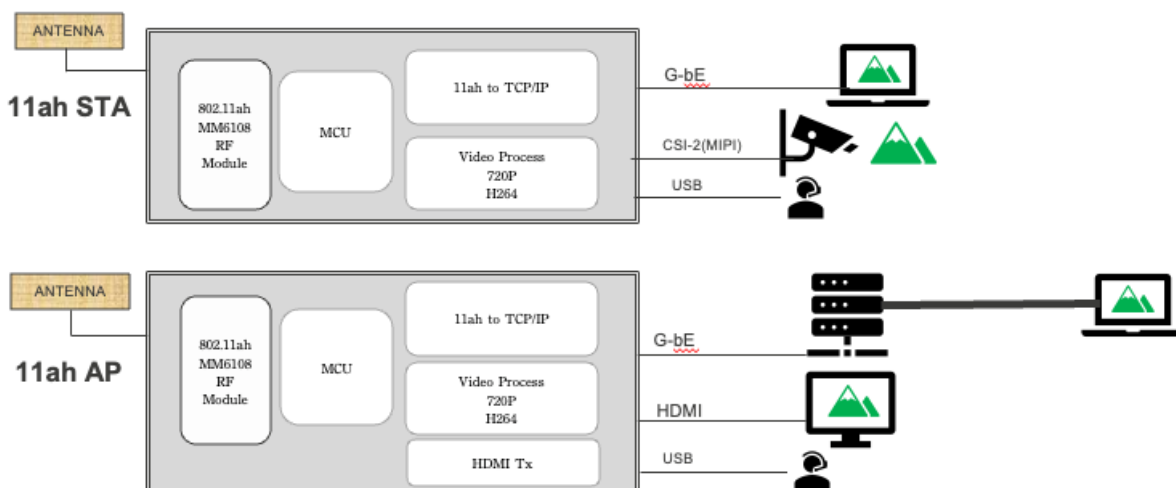# AMEC Open Standard Module (OSM)

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, I²Cs, 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

https://www.alltekmarine.com/

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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	● Development and manufacturing for full range marine AIS products, including Class A / B, Receiver, AtoN, SART, MOB, ECS ● Open Standard Module (OSM) ● Unmanned aerial vehicle ● Navigation, Communications, Search & Rescue ● Services of Design, Development, Manufacturing, & System Integration
Number of Employees	70+ (May 2023)