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.

**Target Markets and Applications**

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

https://www.alltekmarine.com/
<table>
<thead>
<tr>
<th>Company name</th>
<th>ALLTEK MARINE ELECTRONICS CORP.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Headquarters</td>
<td>14F-2, No. 237, Sec. 1, Datong Rd., Xizhi District, New Taipei City, 22161, Taiwan +886-2-8691-8568</td>
</tr>
<tr>
<td>Established</td>
<td>Sep. 2006</td>
</tr>
<tr>
<td>Chairman</td>
<td>Mr. Wu, Yi-Wing (Louis)</td>
</tr>
</tbody>
</table>
| **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)                  |