

Accelerating Embedded Innovation

System on Modules | ODM Solutions & Design

This edition of the newsletter brings you the latest product announcements and news from iWave. We hope you enjoy exploring the latest in embedded solutions.

iWave specializes in designing & manufacturing cutting-edge embedded computing platforms and solutions. With 25 years of expertise in hardware, firmware, and solution development, we empower businesses in the industrial, automotive, and medical markets.

Arm® System on Modules

iW-RainboW-G50M
i.MX 93 SMARC SoM



i.MX 93 SoM is built on the **SMARC v2.1.1** standard and includes Wi-Fi 6 and Bluetooth wireless connectivity. The SoM ensures the latest processing technology is accessible to various applications.

[>>Read More](#)

iW-Rainbow-G54M
STM32MP13x SoM



STM32MP13x SoM is built on **OSM Size-0** (30 mm x 15mm) standard that balances power & performance and includes development tools, security framework, and design support.

[>>Read More](#)

iW-RainboW-G55M
AM62Ax SoM



TI AM62Ax SoM integrates the **C7xV-256 Deep Learning Accelerator** along with peripherals like Gigabit Ethernet (RGMI), USB 2.0, and CAN-FD for automotive & industrial markets.

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FPGA System on Modules

iW-RainboW-G43M
Agilex 7 SoM

iW-Rainbow-G57M
Versal AI Edge SoM

iW-RainboW-G36M
ZU5/4/3/3T/3/1 SoM



Agilex 7 SoM is ideal for embedded edge processing and networking. Features **64 FGT & 8 FHT Transceiver Channels, x16 PCIe**, and Quad Cortex-A53 processor with network control & storage.

[>>Learn More](#)



The Versal AI Edge System on Module accelerates applications from **sensor to AI to real-time control**. It supports 2x 240-pin high-speed connectors with 122-user IOs, GbE, USB 2.0, & 8 HS transceivers.

[>>Learn More](#)



This Zynq UltraScale+ MPSoC SoM is the smallest device with improved features like **12.5Gbps GTH transceivers, high IO-to-logic density**, UltraRAM, and DSP for low-cost entry point applications.

[>> Learn More](#)

COTS Modules

3U VPX Plug In Module



3U VPX Plug-In Module aligns with **ANSI/VITA 65.0-2019 standard**. The module is built to integrate with applications like industrial monitoring, medical equipment, mission management, and avionics.

[>>Learn More](#)

SmartNIC Network Accelerator Card



SmartNIC Card featuring the AMD Zynq UltraScale+ MPSoC SoM, offers **high-speed networking** with dual front panel QSFP DD Cages (2x 200GbE or 4x 100GbE) and **high-performance storage** with triple NVMe slots.

[>>Learn More](#)

PCIe Gen3/2/1 FMC+ Module



PCIe Gen3 x8 FMC Module complies with the FMC standard **VITA 57.1**. It supports up to 8 PCI Express Root Complex and End Point interface lanes. End users can evaluate MIPI CSI-2, MIPI DSI 1.3 & SATA 3.0 interfaces.

[>> Learn More](#)

Technical Articles

Redefining Radio Telescopes with RFSoc System on Modules



i.MX 93 SoM Powering Advanced EV Charging Systems



Radio telescopes are vital tools in unraveling the mysteries of the cosmos, capturing radio waves from distant celestial objects. The **RFSoc System on Module** features the industry's highest RF channel count with **16 Channel RF-DACs @ 10GSPS** and **16 Channel RF-ADCs @ 2.5GSPS** and can power radio telescopes.

[>>Explore](#)

With the rising demand for EVs, designing efficient EV charging stations is crucial. They must address challenges like communication, safety, security, and future grid integration. i.MX 93 SoM has emerged as a **leading solution** for addressing these challenges while allowing for **easy upgrades and incorporating essential components**.

[>>Explore](#)

A Strong Partnership Ecosystem

iWave Partners with Sibros to Boost Intelligent Vehicle Connectivity



Sibros' over-the-air (OTA) technology will be integrated into iWave's Rugged Telematics Device as part of the partnership, **enabling embedded intelligence** in applications for heavy-duty, off-road, automotive, and industrial vehicles.

[>>Explore](#)

iWave Joins SiMa.ai Partner Program as an ODM Partner



The Edge marks AI's new frontier, demanding tailored solutions for widespread computer vision deployment. As an **ODM and hardware partner**, iWave accelerates customers' time to market through the engagement with SiMa.

[>>Explore](#)

On-Demand Webinars



Efficient Machine Learning with the i.MX 9 Applications Processors and iWave's G50M System on Module



Reach optimized performance and increase security with the new STM32MP13 MPUs

Events



Join us in reliving the year's most exciting moments and impactful demonstrations as we revisit our journey alongside our dedicated team, valued partners, and loyal customers at the events iWave was part of.

[Watch Now](#)

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