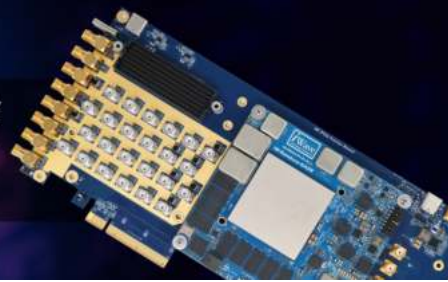


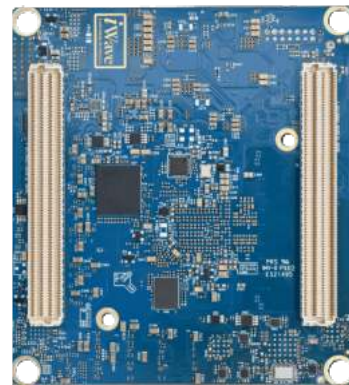
# Unleashing the Power of RFSoc



We are excited to introduce our portfolio of RFSoc System on Modules and our expertise in RF System Design and FPGA Expertise. The RFSoc provides for direct RF-sampling, highly flexible, reconfigurable logic, and software programmability.

The RFSoc System on Modules is a building block for radar systems, 5G and networking systems, test and measurement equipment and satellite communications. Jump-start your design cycle and achieve fast time-to-market with the proven iWave RFSoc System on Modules, evaluation kits and the custom carrier card design expertise.

## [iW-RainboW-G42M:](#) [RFSoc System on Module](#) [Powered by AMD ZU49/ZU39/ZU29DR](#)



The ZU49/39/29DR RFSoc powered SoM supports 16 x ADC Channels up to 2.5Gbps and 16 x DAC Channels up to 10Gbps. The SoM supports 2 x 400 Pin board to board connectors that support a multitude of interfaces, including 16 x PL-GTY High Speed Transceivers with speeds up to 28.21Gbps.

## [Coming Soon:](#) [iW-RainboW-G60M System on Module](#) [Powered by AMD ZU48/47/43/28/27/25DR](#)



We will shortly be launching the ZU48/47/43/28/27/25DR powered SoM, that is built to support high-speed 8 x ADC Channels up to 5Gbps and 8 x DAC Channels up to 9.85Gbps.

## [ADC & DAC PCIe Card Powered by Zynq UltraScale+ RFSoc](#)



The RF-PCIe Carrier Board is integrated with all necessary on-board connectors to validate the features of Zynq UltraScale+ RFSoc (ZU49/39/29DR) SOM, and supports 16 Channel RF-DACs at 10Gbps and 16 Channel RF-ADCs at 2.5Gbps. The card is equipped with 8GB DDR4 RAM and M.2 NVMe slots for expanded storage options, and PCIe Gen 1, 2, and 3 compliant interfaces and multiple SMA connectors for easy validation, with FMC+ interface.

## [Multi-Board Synchronization on the RFSoc](#)

iWave has successfully tested the Multi-Board Synchronization feature on the RFSoc, which is crucial for applications that require precise timing and coordination.

Multi-board synchronization ensures that each board operates in precise timing alignment with others, maintaining data consistency and coherence across the entire systems in applications such as like phased-array radars, distributed antenna systems, and MIMO (Multiple Input Multiple Output) networks. [Read More>>](#)



## [RFSoc SoM: A building block for radio telescopes](#)

The Zynq UltraScale+ RFSoc delivers powerful analog-to-digital conversion, real-time signal processing, and broad bandwidth, making it a top choice for radio telescope backend receivers.

By integrating RF data converters, programmable logic, & microcontrollers, this RFSoc offers all key functions needed for radio astronomy backends, including real-time signal processing, data digitization, high-speed interfacing, and software-based control.



[Explore Videos](#)



Watch now the Hands-On Demonstration on achieving Multi-Board Synchronization with ZU49DR RFSoc.



Take a look on the Overview video of ZU49/ZU39/ZU29DR Zynq UltraScale+ RFSoc SoM.

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