



COTS PRODUCT BRIEF



PARTNER



PARTNER TIER

[PLATINUM](#)

PRODUCT/SERVICES

- Boards & Kits
- Design Services
- IP Cores
- Thermal Management

MARKETS SUPPORTED

- Aerospace and Defense
- Industrial
- Medical
- Quantum Computing
- Automotive
- Networking & Storage



Since 1999, iWave has been a pioneer in embedded systems technology, delivering advanced solutions as a trusted partner in the industry. With over 26+ years of expertise, iWave specializes in designing and manufacturing high-performance FPGA modules and solutions, including System on Modules (SoMs) and COTS Modules such as PCIe Cards and 3U VPX Systems. Complementing their SoM portfolio, iWave also offers a proven suite of optimized FPGA IP Cores designed for diverse applications such as avionics, defence, storage, and networking.

Additionally, iWave offers comprehensive FPGA design services, including carrier board design, system design, FPGA IP Cores, RTL Development, and Linux/BSP porting. Their expertise covers VHDL, Verilog, System Verilog, high-speed bus interfaces, PCIe, video, networking, and ADC/DAC. Through a well-defined modular architecture and standardized form factors, iWave ensures scalability and modularity across FPGA series and families. This allows customers the flexibility to use different FPGAs without changing their product design, leveraging the versatility of the "SoM" concept.

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Product Name	Device(s)	Form Factor	Standards & Compliance
iG-G80M: Versal™ RF Series System on Module	AMD Versal™ RF Series Adaptive SoC	AI-enabled RF System on Module with 16 ADCs (32GSPS), 16 DACs (16GSPS) and PCIe Gen5 connectivity	82mm x 115mm (BRYNc)
iG-G80P: ADC & DAC PCIe Card Powered by Versal™ RF VR1602/1652/1902/1952	AMD Versal™ RF Series Adaptive SoC	AI Engine-enabled Versal RF PCIe card with 32 GSPS ADCs and 400G networking	¾ Length PCIe Gen4 x8 Host Interface
iG-G57M-ML: Versal™ AI Edge XQ System on Module - MIL Grade	AMD Versal™ AI Edge XQ Series Adaptive SoC	Defense-grade Versal System on Module with AI acceleration, 8 GTYP transceivers and extended-temperature operation	50mm x 60mm (REN)
iG-G57M-SP: Versal™ AI Edge XQR System on Module - Space Grade	AMD Versal™ AI Edge XQR Series Adaptive SoC	Space-grade Versal System on Module with AI Engines and 8 GTYP transceivers for space applications	REN
iG-G79M: ZU67/ZU65/ZU64/ZU63DR RFSoc System on Module	AMD Zynq™ UltraScale+™ RFSoc DFE	DFE-enabled RFSoc System on Module with 10 ADCs, 8 DACs and beamforming acceleration	82mm x 100mm (BRYNc)
iG-G42M-ML: Zynq™ UltraScale+™ XQ RFSoc 49DR System on Module – MIL Grade	AMD Zynq™ UltraScale+™ XQ RFSoc	Defense-grade RFSoc System on Module with 8 ADCs up to 5 GSPS, 8 DACs up to 9.85 GSPS and 16 GTY transceivers	100mm x 82mm
iG-G42M-ML: Zynq™ UltraScale+™ XQ RFSoc 49DR System on Module – MIL Grade	AMD Zynq™ UltraScale+™ XQ RFSoc	Defense-grade RFSoc System on Module with 16 ADCs, 16 DACs and 16 GTY transceivers for mission-critical systems	82mm x 100mm (BRYNc)

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Product Name	Device(s)	Form Factor	Standards & Compliance
iG-G42M: ADC & DAC PCIe Card Powered by RFSoc ZU49/ZU39/ZU29DR	AMD Zynq™ UltraScale+™ Gen 3 RFSoc	RFSoc PCIe card with 4 ADCs, 4 DACs and PCIe Gen4 for high- speed RF data processing	¾-Length PCIe x8 up to Gen4 High-Bandwidth Host Interface
iG-G42M: ZU49/ZU39/ZU29DR RFSoc System on Module	AMD Zynq™ UltraScale+™ Gen 3 RFSoc	RFSoc System on Module with 16 ADCs, 16 DACs and Multi-Tile Synchronization	100mm x 90mm (BRYN)
iG-G60P: ADC & DAC PCIe Card Powered by RFSoc ZU48/ZU47/ZU43/ZU 28/ZU27/ZU25DR	AMD Zynq™ UltraScale+™ Gen 1 & Gen 2 RFSoc	RFSoc PCIe card with 8 ADCs, 8 DACs and 16 GTY transceivers for high-speed RF data processing	¾ Length PCIe Gen3 x 8 Host Interface
iG-G60V: ZU48/ZU47/ZU43/ZU 28/ZU27/ZU25DR RFSoc 3U VPX Card	AMD Zynq™ UltraScale+™ Gen 1 & Gen 2 RFSoc	RFSoc 3U VPX System with 16 ADCs, 16 DACs and conduction- cooled rugged architecture	3U VPX (160mm X 100mm)
iG-G60M: ZU48/ZU47/ZU43/ZU 28/ZU27/ZU25DR RFSoc System on Module	AMD Zynq™ UltraScale+™ Gen 1 & Gen 2 RFSoc	RFSoc System on Module with 8 ADCs, 8 DACs and 16 GTY transceivers	82mm x 100mm (BRYNc)
iG-G35M-ML: Zynq™ UltraScale+™ XQ MPSoc 19/11EG System on Module – MIL Grade	AMD Zynq™ UltraScale+™ XQ MPSocS	Defense-grade MPSoc System on Module with Arm Cortex-A53/R5 processing and high-speed GTY connectivity	75mm x 110mm (OREN+)

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All performance claims are provided by iWave Global and have not been independently verified by AMD. Performance benefits can be impacted by a variety of variables. Results herein are specific to TEWS Technologies and may not be typical. GD-181.

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