



Trusted for Over Three Decades

Rad Hard eFPGA IP Cores

Generated by  **australis**

Radiation-Hardened eFPGA IP

QuickLogic's radiation-hardened eFPGA IP cores uses the company's proven Australis eFPGA IP generation flow to provide customizable eFPGA IP optimized for space and other applications requiring various levels of radiation tolerance / hardness.

This technology can be embedded as an IP core in ASIC and SoC devices or implemented as a custom rad-hard FPGA for nearly any mission critical and/or ruggedized application. QuickLogic's eFPGA technology is the first and only rad-hard embedded FPGA IP available for the U.S. based SkyWater RH90 process.

I/F	I/F	I/F	I/F	I/F	I/F	I/F	I/F
I/F	CLB	CLB	BRAM	DSP	CLB	CLB	I/F
I/F	CLB	CLB		DSP	CLB	CLB	I/F
I/F	CLB	CLB	BRAM	DSP	CLB	CLB	I/F
I/F	CLB	CLB		DSP	CLB	CLB	I/F
I/F	CLB	CLB	BRAM	DSP	CLB	CLB	I/F
I/F	CLB	CLB		DSP	CLB	CLB	I/F
I/F	I/F	I/F	I/F	I/F	I/F	I/F	I/F

Highlights

- First and only eFPGA IP technology for the SkyWater RH90 process
- U.S.-owned and operated foundry for aerospace, defense and medical applications
- Supported by both open-source and QuickLogic's proprietary FPGA user tools



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Benefits



Re-programmability

The re-programmability of the technology enables post-deployment design flexibility, which allows single SoC or ASIC designs to serve multiple applications, easily adapt to changing standards, and be re-configured to meet mission-specific requirements, even after deployment.



Customizable Hardware acceleration

Supports customized implementations of block RAM and DSP blocks for CPU offloading and hardware acceleration for artificial intelligence / machine learning applications.



Cost effective

For long life cycle applications, eFPGA technology extends device lifetime by enabling customers' SoCs and ASICs able to accommodate device-level changes without incurring the high costs of creating and qualifying a new device.



Secure

Implement custom security protocols for programming and accessing the eFPGA.



Built for space and beyond

Unlike other technologies that have been repurposed and then requalified for space applications, QuickLogic's eFPGA IP has been designed to support the most stringent requirements associated with Radiation Hardened applications.



Built in the USA

Only U.S. Trusted foundry 90 nm rad-hard by process solution. Participant in the DMEA Cat 1A Trusted Foundry Program.

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