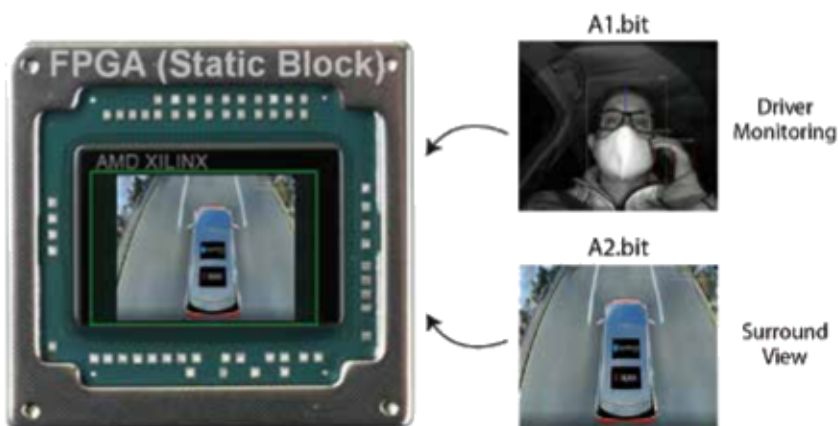


Dynamic Function eXchange (DFX) Framework v2.0

Xylon DMS/Surround View Automotive ADAS Demo

Disclaimer: The Dynamic Function eXchange v2.0 application example showcases the Dynamic Function eXchange methodology but is an evolution of the original Xylon DFX Design and is no longer fully compatible with the logiVID-ZU hardware platform which is prepared for use with the original logiREF-DFX-IDF Design Framework.

This Xylon demo unit demonstrates Dynamic Function eXchange (DFX) from AMD-Xilinx, highlighting the ability to change a system's internal architecture and functionality of a continually operating programmable FPGA/SoC chip – within milliseconds and without interruption. The demo features both Xylon's ARTIEYE Driver Monitoring System (DMS) and Xylon's ViewMore™ Natural Surround View 3D parking assistance solution, which can be alternated depending on the vehicle's speed and mode of operation.



Runtime FPGA-Level Automotive Feature Modding

System Flexibility – swap functions on the fly while being able to update your applications without any overhead cost.

Cost, size and power usage – multiplexing of HW features enables use of smaller, cheaper and power efficient chips and minimized bitstream storage requirements.

Functional Safety – DFX increases fault tolerance due to usage of modern safety design methodologies like Isolation Design Flow (IDF) and on-chip monitoring features (SEM IP Core).

 logicBRICKS®
by Xylon

Xylon is an expert in designing embedded systems, intellectual property and design services based on programmable FPGA and SoC/MPSoC - under the logicBRICKS trademark!



Xylon brings the complete design framework to explain and demonstrate to users how to quickly get a grasp of a number of demonstrated key technologies: Dynamic Function eXchange (DFX), Isolation Design Flow (IDF) and use of the Soft Error Mitigation (SEM) IP for increased design Functional Safety.

<https://www.logicbricks.com/Solutions/logiREF-DFX-IDF.aspx>

The logiREF-DFX-IDF Design Framework does not support demonstrated automotive DMS and Surround View applications!