

XILINX & DORNERWORKS ENABLE **MULTI-SENSOR DISPLAY PORT DEMO PLATFORM**

This demonstrates DornerWorks design and implementation of software controllable FPGA-based networked video systems on a Xilinx Zynq UltraScale+ MPSoC ZCU102/106.

This hardware accelerates designs for video conferencing, surveillance, Advanced Driver Assisted Systems (ADAS), and streaming and encoding applications.

Xilinx Zynq UltraScale+ MPSoC & DornerWorks Engineering **FPGA-BASED VIDEO STREAMING**



DornerWorks Multi-Stream Display Port demo platform is intended for Xilinx FAE/TSE teams and mutual customers.

This demo has been shown at multiple Xilinx events, including the international sales conference, Xilinx Developers Forum, and Xilinx Security Working Group.

We welcome your feedback regarding customers that would have interest in the demo capabilities like **Video Codec Unit (VCU)**, **PCIe**, **Time-Sensitive Networking (TSN)**, or **Machine Learning (ML)**.



Multi-stream capable DisplayPort input

Provides up to 4 input video streams over a single DisplayPort interface



Software defined video overlay

Textual and menu framework developed for fully dynamic on-screen displays



Alpha-blended mixing

Combine DisplayPort input video streams and software defined overlay



Mixed video output

HDMI, DisplayPort, HD-SDI, or custom analog FMC



Mixed video encoding

Using the VCU and streamed over Ethernet using DornerWorks AVB IP



Soon to feature...

- HD-SDI
- Custom FMC
- VCU
- AVB
- and more



Future roadmap

- Machine Learning enabled by DPU

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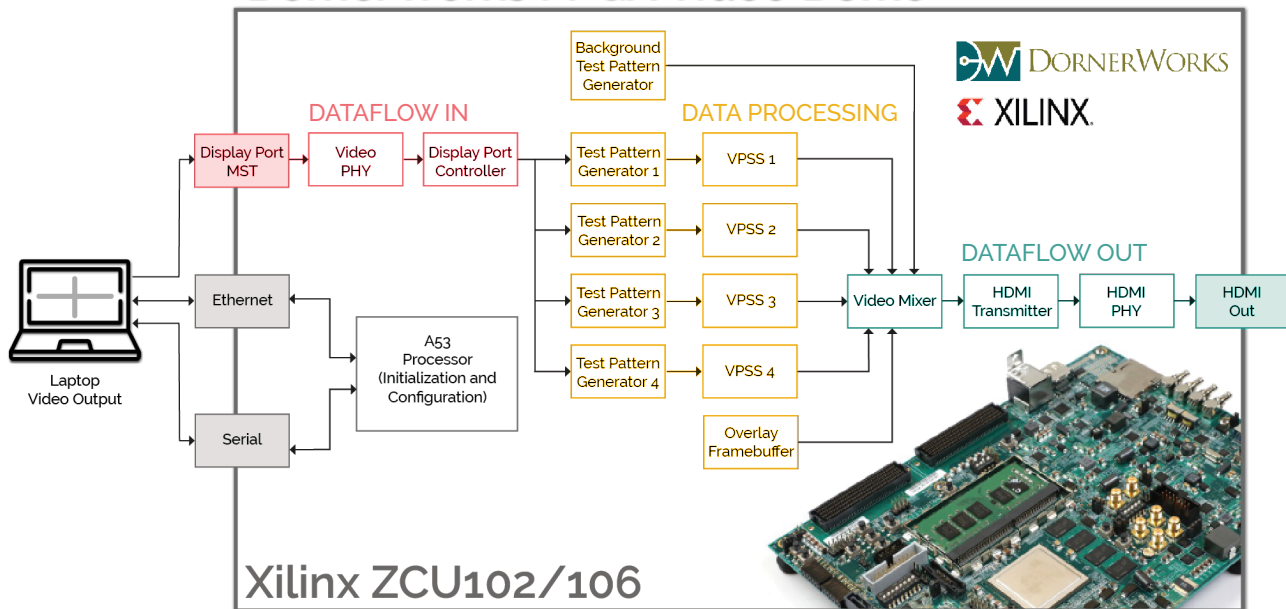
“DornerWorks is a professional, flexible, AND AN *ESSENTIAL* PART OF OUR TEAM”

Time-critical video streaming, enabled by Xilinx IP



- Xilinx Video Mixer v3.0
- Xilinx Video Processing Subsystem v2.0
- Xilinx Video Test Pattern Generator v8.0
- Xilinx HDMI Transmitter Subsystem v3.1
- Xilinx Video PHY Controller v2.2
- Xilinx DisplayPort RX Subsystem v2.0

DornerWorks FPGA Video Demo



With a time-synchronous video streaming solution, you can lead the market by delivering the **real-time results** your customers deserve.

SCHEDULE A CONSULTATION

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