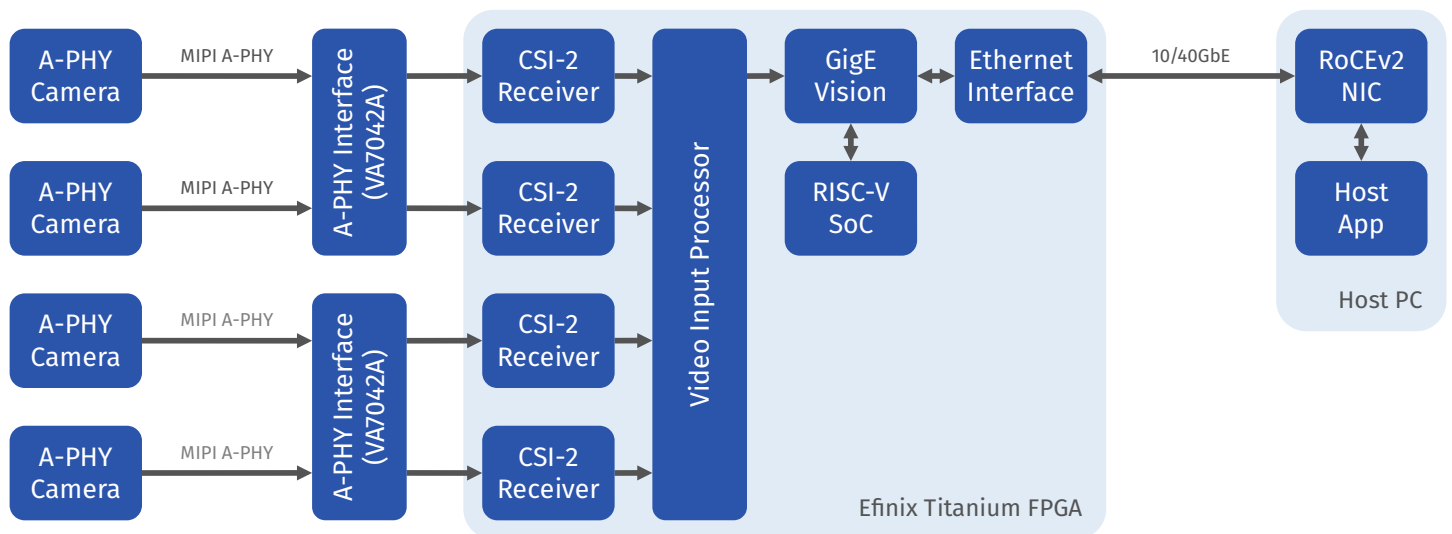




# A-PHY to GigE Vision 3.0 Bridge for Efinix Titanium FPGAs

## Overview

- Connects up to 4 MIPI A-PHY cameras to a host PC
- GenICam compliant connectivity for MIPI A-PHY technology
- GigE Vision 3.0 standard GVRSP transport protocol
  - Hardware-offloaded RoCEv2-based streaming
  - High performance and efficiency
  - Reliability, data consistency, low latency
- Based on imavix engineering GigE Vision FPGA IP core
- Reference implementation for the Efinix energy-efficient Titanium FPGAs
- MIPI A-PHY interconnect technology by Valens Semiconductor



## GigE Vision 3.0 FPGA IP Core

- GigE Vision 3.0 stream transmitter
- Native support of the GenICam GenDC payload type
- RoCEv2-based GVRSP streaming protocol implemented in the FPGA logic
- Fully customizable core configuration
- Supported data rates up to 100 Gb/s
- Delivered with basic embedded CPU control software

## About imavix engineering

- FPGA IP cores with related development and consultancy services
- Image sensor and camera interfacing
- PCIe host interfaces with DMA streaming engines
- GenICam based standard machine vision interfaces
- Ethernet and GigE Vision transport layers including the RDMA/RoCEv2 technology