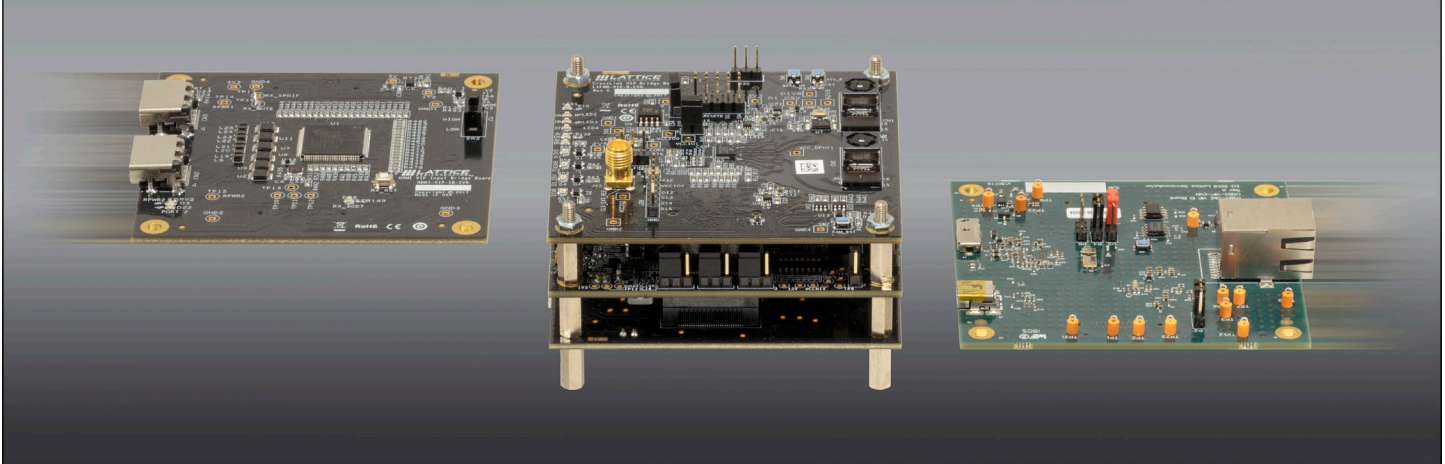


Video Interface Platform (VIP)



Flexible prototyping system for rapid embedded vision development

The Video Interface Platform (VIP) is a highly flexible, modular solution for rapid prototyping of embedded vision systems. It allows an easy interchange of a variety of different input and output interface boards through a simple snap-on concept. The platform simplifies the use of mobile influenced technologies and allows reuse of existing hardware to shorten time-to-market, all within a highly beneficial, modular system.

Features:

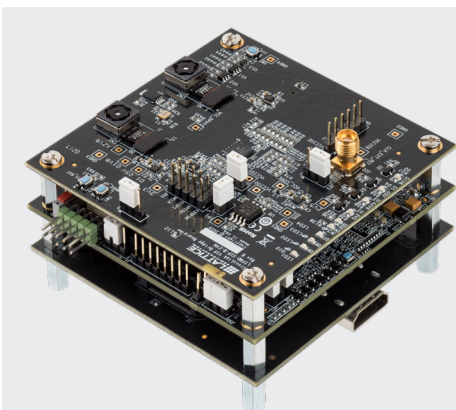
- Wide range of input and output boards for flexible connectivity:
 - HDMI, DisplayPort & embedded DisplayPort, USB 3.0, Gigabit Ethernet, Dual Image Sensor
- Two unified 60-pin connectors to eliminate wiring
- ECP5-85K for maximum processing performance
- Complimentary Lattice Diamond design software

3rd Party VIP Ecosystem

The Video Interface Platform is complemented by a growing 3rd party VIP ecosystem, which includes commercial grade IPs such as Image Signal Processing (ISP), networking stacks, and additional hardware modules. Partners include:

Helion Vision provides a comprehensive solution, which includes a selection of ISPs, ranging from basic to advanced High Dynamic Range Imaging (HDR) color pipelines.

Bitec provides the DisplayPort 1.4a compliant IP Core (with eDP 1.4 support) to low-power, production-priced ECP5 devices.



Embedded Vision Development Kit

Starter kit for VIP prototyping environment for embedded system design. All-inclusive development kit with on-board video sources.

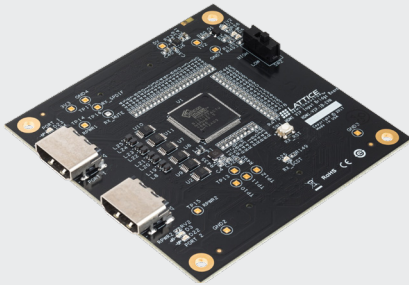
It includes three boards:

- CrossLink VIP Input Bridge Board with two Sony IMX 214 image sensors
- ECP5 VIP Processor with ECP5-85 FPGA
- HDMI VIP Output Bridge Board

Ordering Part Number

LF-EVDK1-EVN

VIP Boards



HDMI VIP Input Bridge Board

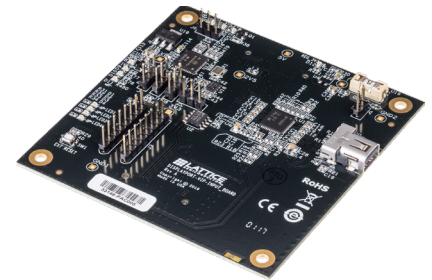
The HDMI VIP Input Bridge Board is a flexible, dual-input board that complements the VIP by providing two selectable HDMI input signals to the ECP5 VIP Processor Board. The board converts two unencrypted non-HDCP HDMI input video signals into parallel RGB video.

Ordering Part Number

HDMI-VIP-IB-EVN

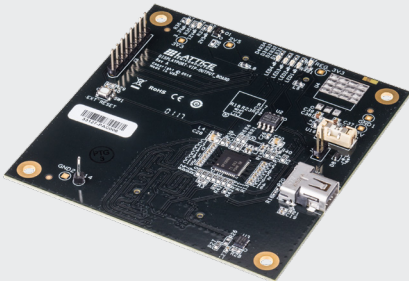
DisplayPort VIP Input Board

The DisplayPort VIP Input Board complements the VIP by providing DisplayPort RX and embedded DisplayPort RX connectivity to the ECP5 VIP Processor Board.



Ordering Part Number

DP-VIP-I-EVN



DisplayPort VIP Output Board

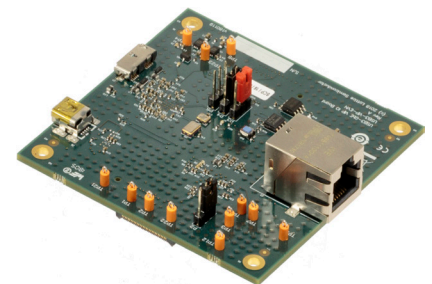
The DisplayPort VIP Input Board complements the VIP by providing DisplayPort TX and embedded DisplayPort TX connectivity to the ECP5 VIP Processor Board.

Ordering Part Number

DP-VIP-O-EVN

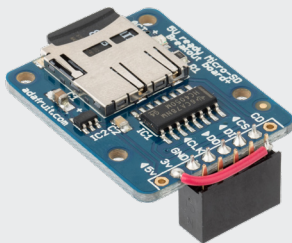
USB3-GbE VIP IO Board

The USB3-GbE VIP IO Board complements the VIP by providing USB 3.1 and Gigabit Ethernet networking connectivity on a single board.



Ordering Part Number

USB3-VIP EVN



MicroSD Card Adapter

The MicroSD Card Adapter complements the VIP by providing mass storage capability to the ECP5 VIP Processor Board.

Ordering Part Number

MICROSD-ADP-EVN

