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 (HDRI) 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

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learn more at www.latticesemi.com/VIP
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