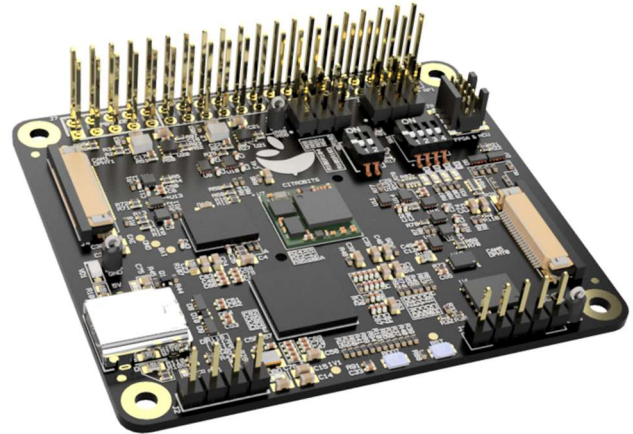


# EVA LVM03

April 26

## Overview

The evaluation shield allows for easy connection to popular single board computers like the Raspberry Pi Model B. It works as a bridge from Video Interfaces for Camera and Display to USB 3.2 with up to 10Gbps. The onboard HyperRAM allows frame buffering up to 400 MB/s.



## All features

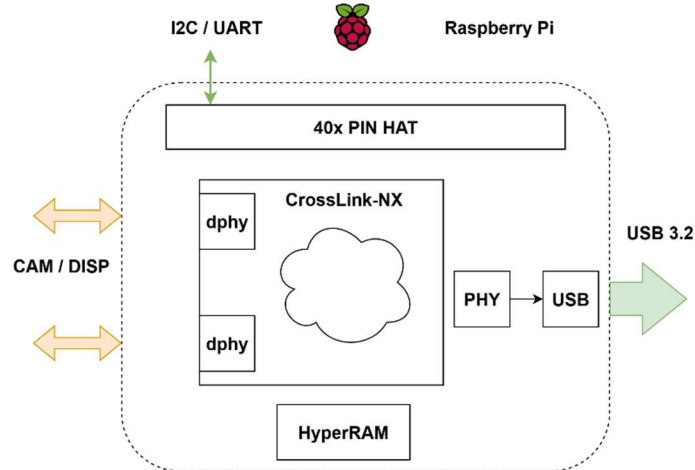
- Raspberry Pi HAT format
- Standard 22x Pin CSI2 connectors
- Up to 2x Camera/Display Interfaces
- Supported standards CSI2, SLVS
- USB 3.2 up to 10Gbps
- 256Mbit HyperRAM
- Dual Bitstream boot
- Single Supply (5V) operation
- MCU for user-specific configuration

## Table

Form Factor	65 x 56 (mm) Raspberry Pi Model B compatible HAT
Connectivity	22x Pin CSI2 – Raspberry Pi Zero Pinout 2x Camera/Display RX/TX Ports USB 3.2 Type-C
Video	2x 4-Lane Hard D-PHY CSI2 Ports (up to 2.5Gbps/Lane)
USB	3.2 (10 Gbps) Type-C Connector
HyperRAM	256 Mbit 400 MB/s
Environment	Operating temperature 0-60°C (-40 - +85°C) *

\*on request

## Block Diagram



## Applications

- Video to USB Bridge
- Video Compression
- Video Aggregation. Merge two video streams in an USB Interface
- Video Cloning/Mirroring. Duplicate video content from input to multiple displays
- Video Pre-Processing(ISP). Image rotation, lens corrections, color space conversion, ...
- Video pattern generators for custom test equipment
- Video grabber from image sensor to USB
- Remote Sensor-Head

## Targeted Platforms

- Raspberry Pi
- NVIDIA Jetson

## Ordering Information

Description	Ordering Part Number
Evaluation Board	EVA LVM03A ES0
Evaluation Kit	EVA LVM03A KIT
- Evaluation Board	
- JTAG Adapter to Lattice Programmer HW-USBN-2B	