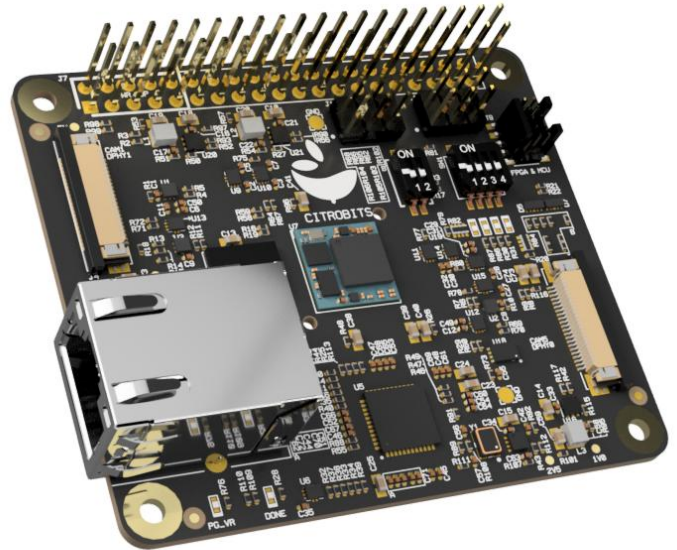


EVA LVM02

January 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 Ethernet with up to 1000 BASE-T. The onboard HyperRAM allows frame buffering up to 400 MB/s.



All features

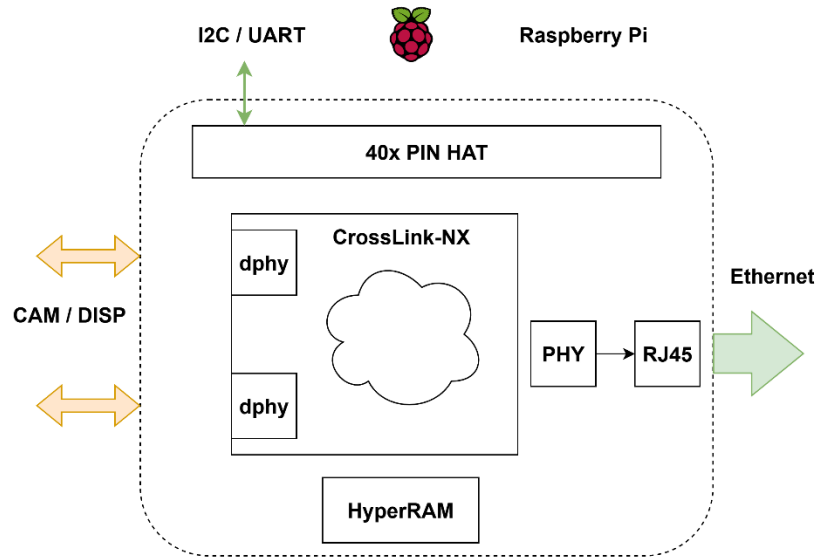
- Raspberry Pi HAT format
- Standard 22x Pin CSI2 connectors
- Up to 2x Camera/Display Interfaces
- Supported standards CSI2, SLVS
- Up to 1000BASE-T Ethernet
- 256Mbit HyperRAM
- Dual Bitstream boot
- Single Supply (5V) operation
- MCU for user-specific configuration

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 RJ45 Ethernet Port
Video	2x 4-Lane Hard D-PHY CSI2 Ports (up to 2.5Gbps/Lane)
Ethernet	1000BASE-T
HyperRAM	256 Mbit 400 MB/s
Environment	Operating temperature 0-60°C (-40 - +85°C) *

*on request

Block Diagram



Applications

- Video to Ethernet Bridge
- Video Compression
- Video Aggregation. Merge two video streams in an Ethernet 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 Ethernet
- Remote Sensor-Head

Targeted Platforms

- Raspberry Pi
- NVIDIA Jetson

Ordering Information

Description	Ordering Part Number
Evaluation Board	EVA LVM02A ES0
Evaluation Kit	EVA LVM02A KIT
- Evaluation Board	
- USB-C Power Adapter	
- JTAG Adapter to Lattice Programmer HW-USBN-2B	