



SYSTEM ON MODULE



VPU POWER IN YOUR PRODUCT

Intel Myriad X System on Module with MIPI

The DepthAI SoM brings the full power of the Myriad X into your product.

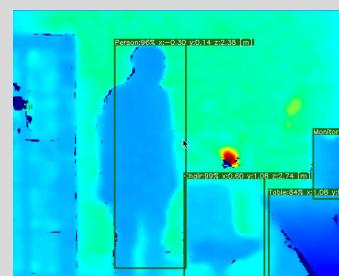
Unlike PCIE- and USB-interface Myriad X solutions, the DepthAI SoM exposes 3 MIPI camera connections to enable high-framerate stereo vision (1280x720, 120FPS reference design available) and high-resolution/quality color video (4K, 60FPS reference design available).

Such architecture allows the use of hardware blocks that are inaccessible with the existing PCIE and USB solutions, including:

- Stereo Depth
- Edge Detection
- Harris Filtering
- Warp/De-Warp
- Motion Estimation
- ISP Pipeline
- Motion Estimation
- JPEG Encoding
- H.264 and H.265 Encoding

ORIGINAL VISION

3x MIPI-camera connections to harness the full power of the Myriad X: Depth, AI, and Vision Processing





RASPBERRY PI COMPUTE MODULE

HARDWARE FEATURES

- 2x 2-lane MIPI Camera Interface
- 1x 4-lane MIPI Camera Interface
- Quad SPI with 2 dedicated chip-selects
- I2C
- UART
- USB2
- USB3
- Several GPIO (1.8V and 3.3V)
- Supports off-board eMMC or SD-Card
- On-board NOR boot Flash (optional)
- On-board EEPROM (optional)
- All power regulation, clock generation etc. on module
- All connectivity through single 100-pin connector (DF40C-100DP-0.4V(51))

MULTIPLE REFERENCE DESIGNS AVAILABLE

