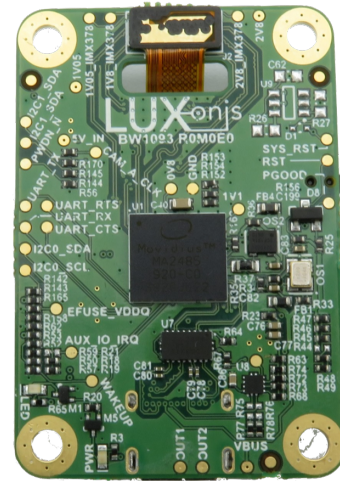


# MEGA AI



## VPU POWER IN YOUR PRODUCT

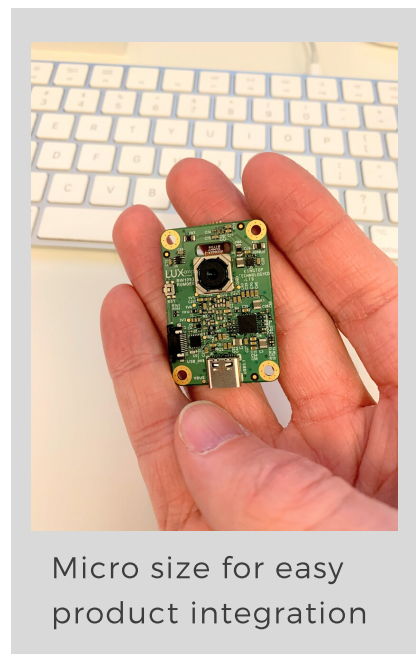
Hardware H.265, 12MP Color Camera and 4 TOPS AI

The Luxonis megaAI brings the full power of the Myriad X into your product.

Unlike other AI processors, the Luxonis megaAI is a complete solution including integrated 12MP camera capable of 60FPS 4K video and 4 trillion operations of Computer Vision + AI processing.

Luxonis megaAI can be used with hosts USB2 and USB3 (Gen1; 5gbps and Gen2: 10gbps), with communication via our open-source host API (<https://github.com/luxonis/depthai>).

When used with a host, megaAI offloads all computer vision and AI workloads from the host, allowing the host to be free to run its own business logic.



Micro size for easy product integration

# MEGA AI

## HARDWARE COMPUTER VISION AND AI/ML OFFLOAD

The direct MIPI connection from the onboard 12 MegaPixel cameras allows the use of hardware blocks, offloading complex computer vision and AI tasks directly to the **4 trillion-operations-per-second** (TOPS) power of megaAI, including:

- Neural Inference (e.g. Object Detection, Semantic Segmentation, etc.)
- Object Tracking
- Key-point Tracking
- Visual Odometry
- Motion Detection
- Edge Detection
- Harris Filtering
- Warp/De-Warp
- ISP Pipeline
- 12MP JPEG Encoding
- 4K H.264 and H.265 Encoding @ 30FPS

