## Red Mamba

# IP video streaming platform





Red Mamba IP video encoding board has been specifically designed for compact embedded vision systems.

Used in conjunction with a iMX6 Quad core Cortex A9 processor, this tiny and powerful module offers a h.264 hardware encoder and enables low latency video stream over Ethernet or WIFI.

#### **FEATURES**

- i.MX6 Quad Core ARM Cortex<sup>™</sup>-A9
- Embedded Linux
- Low latency h.264 encoding / decoding
- Video streaming over IP & Wi-Fi
- LVDS, MIPI camera inputs
- o HDMI 1.4 output -up to 1080p60
- ONVIF protocol
- o TTL\*, RS485
- Local storage: Micro SD Card
- Compact, low power consumption

#### Main functionalities

Red Mamba is a powerful embedded vision module that integrates h.264 hardware encoder and enables video stream over Ethernet & Wi-Fi.

This pocket size streaming platform is ideal for a wide range of applications.

#### Customizable Platform

**Red Mamba** offers a ready-to-use embedded solution that can be easily integrated to your new or existing system.

Red Mamba is a scalable module that features a board to board connector dedicated to host an additional PCBA to fit custom specifications (video inputs/outputs, sensors, RTC, audio, POE...)

#### Flexible & cost effective solution

Based on an embedded Linux OS, *Red Mamba* offers flexibility to developers by using a solution which comes with a complete set of tools & libraries (SDK).

This smart video platform is ideal for customer to easily implement their video processing algorithms and develop their customized software application.

### **TARGET APPLICATIONS**



Medical / Video conferencing / Transport & surveillance / Automatic Number Plate recognition (ANPR)
Unmanned Aerial Vehicles (UAVs) / Remotely Operated Underwater Vehicles (ROVs)
Inspection / Industrial automation / Robotics / Low vision

<sup>\*</sup>Need to implement a "transparent Bridge"

# Onboard Connectors





