

# Red Mamba Neo

## IP video streaming platform



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

Combined with a iMX 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.MX Quad Core ARM Cortex™-A9
- Low latency h.264 encoding
- Video streaming over IP & Wi-Fi supporting several protocols: RTSP, RTP multicast, RTP MPEG2TS
- Video inputs: LVDS, MIPI, add-on connector
- Video output: HDMI 1.4 - up to 1080p60
- Video format detection
- Communication: RS485 or UART TTL
- Record and snapshot available
- Storage: local and micro-SD card slot
- Embedded Linux
- Setup and update via custom Website
- ONVIF Profile S compliant

### ○ Easy configuration

**Red Mamba Neo** is a powerful embedded **video encoder** with its own custom website. It allows you to enable the features you need and setup all the system.

The possibility to **update by distance** the board via Ethernet is a big advantage for that evolving system.

### ○ Customizable platform

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

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

### ○ Flexible & cost effective solution

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

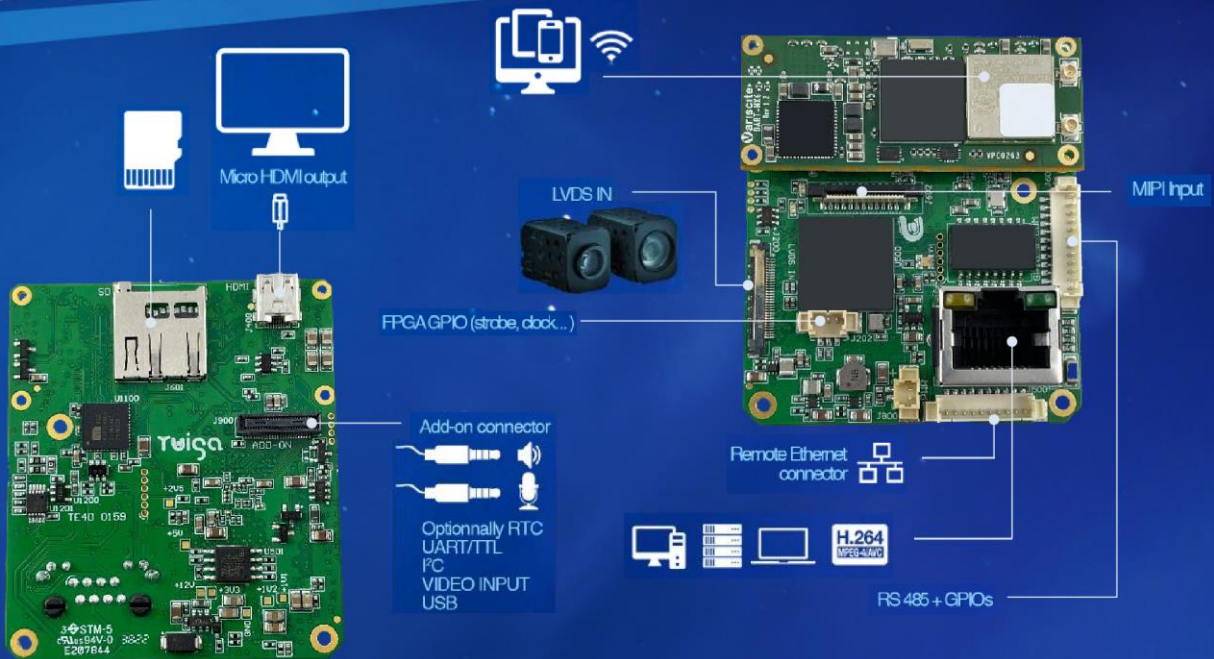
This pocket size streaming platform is ideal for a wide range of applications.

## 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

# Onboard Connectors



## Red Mamba Neo – IP Video streaming platform

Product code	TV20 0011
<b>Multimedia</b>	
Video encoding	h.264 Baseline Profile – up to 1080p30
Video decoding	h.264 Baseline, Main, High Profile – Up to 1080p60
Streaming	RTSP stream (128 to 20000 Kbit/s) – RTP multicast – RTP MPEG2TS
<b>Video Input</b>	
LVDS	x1
MIPI	x1
ADD-ON	x1
<b>Video Output</b>	
HDMI	x1 – 1.4a (1920x1080)
Ethernet	10/100 Mbit/s Ethernet (Remote RJ45)
WI-FI	802.11 a/b/g/n + MIMO
<b>Connectivity</b>	
RS485	up to 1 – VISCA/PELCO protocol
UART	up to 2
GPIO's	up to 8
SD Card slot	x1
<b>CPU</b>	
CPU Name/type	NXP/ Freescale i.MX6 Quad core ARM® CortexTM-A9 Core
CPU clock (Max) Memory	up to 800MHz
<b>Memory</b>	
LPDDR2 RAM	up to 1GB
eMMC NAND Flash (8bit) OS Support	up to 64GB eMMC storage
<b>OS Support</b>	
Linux	Yocto, Linux
<b>Electronic specifications</b>	
Supply voltage	6 to 12VDC
Digital I/O voltage	3.3V
<b>Environmental specifications</b>	
Operating temperature range	0 °C to 60 °C
Storage temperature range	-20 °C to 60 °C
<b>Mechanical specifications</b>	
Dimensions (W x L x H)	50 mm x 57 mm x 15 mm (Remote RJ45 connector)

**Twiga**

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