

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**).

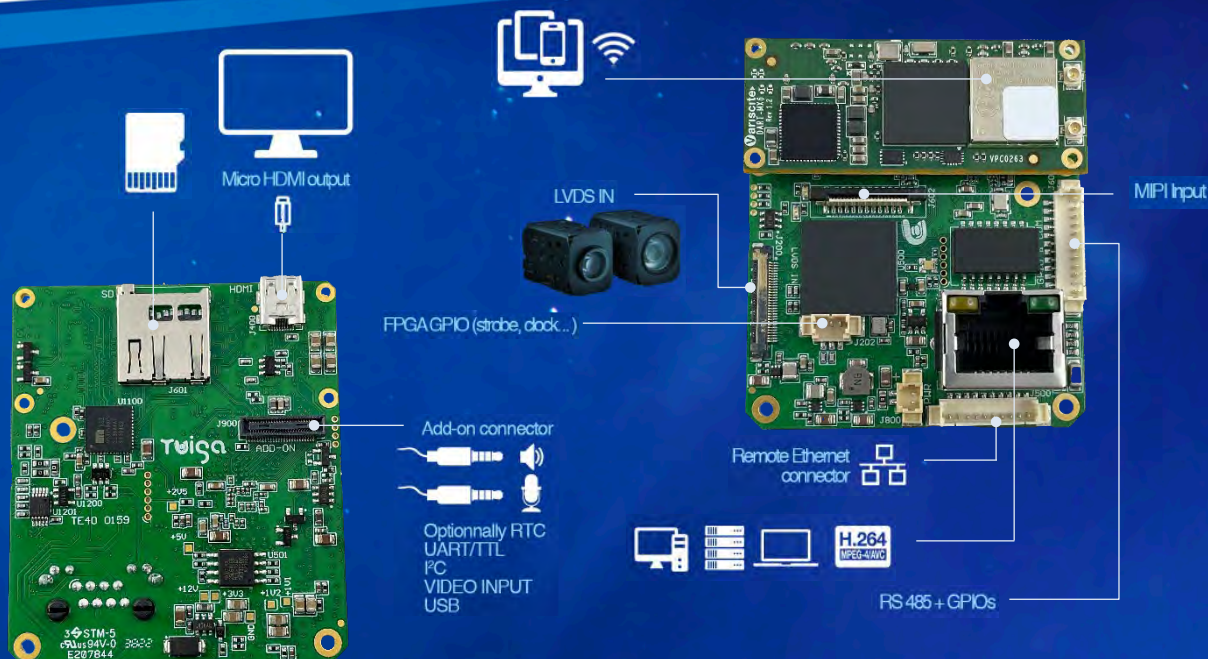
This pocket size streaming platform is ideal for a wide range of applications.

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



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Product code TV20 0011

Multimedia

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

Video Input

LVDS x1
 MIPI x1
 ADD-ON x1

Video Output

HDMI x1 – 1.4a (1920x1080)
 Ethernet 10/100 Mbit/s Ethernet (Remote RJ45)
 WI-FI 802.11 a/b/g/n + MIMO

Connectivity

RS485 up to 1 – VISCA/PELCO protocol
 UART up to 2
 GPIO's up to 8
 SD Card slot x1

CPU

CPU Name/type NXP/ Freescale i.MX6 Quad core ARM® CortexTM-A9 Core
 CPU clock (Max) Memory up to 800MHz

Memory

LPDDR2 RAM up to 1GB
 eMMC NAND Flash (8bit) OS Support up to 64GB eMMC storage

OS Support

Linux Yocto, Linux

Electronic specifications

Supply voltage 6 to 12VDC
 Digital I/O voltage 3.3V

Environmental specifications

Operating temperature range 0 °C to 60 °C
 Storage temperature range -20 °C to 60 °C

Mechanical specifications

Dimensions (W x L x H) 50 mm x 57 mm x 15 mm (Remote RJ45 connector)



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