

- **Blue Mamba IP video encoding platform has been specifically designed for compact embedded vision systems.**

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

FEATURES

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

○ Main functionalities

Blue Mamba is a powerful embedded vision module that integrates h.264 hardware encoder and enables video stream over Ethernet & real time HDMI video display.

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

○ Customizable Platform

Blue Mamba offers a ready-to-use embedded solution that can be easily integrated to your new or existing system. This flexible and scalable module features an add-on connector to provide additional inputs such as sensor, RTC, or Y/C 16/20 bit video input...

○ Flexible & cost effective solution

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

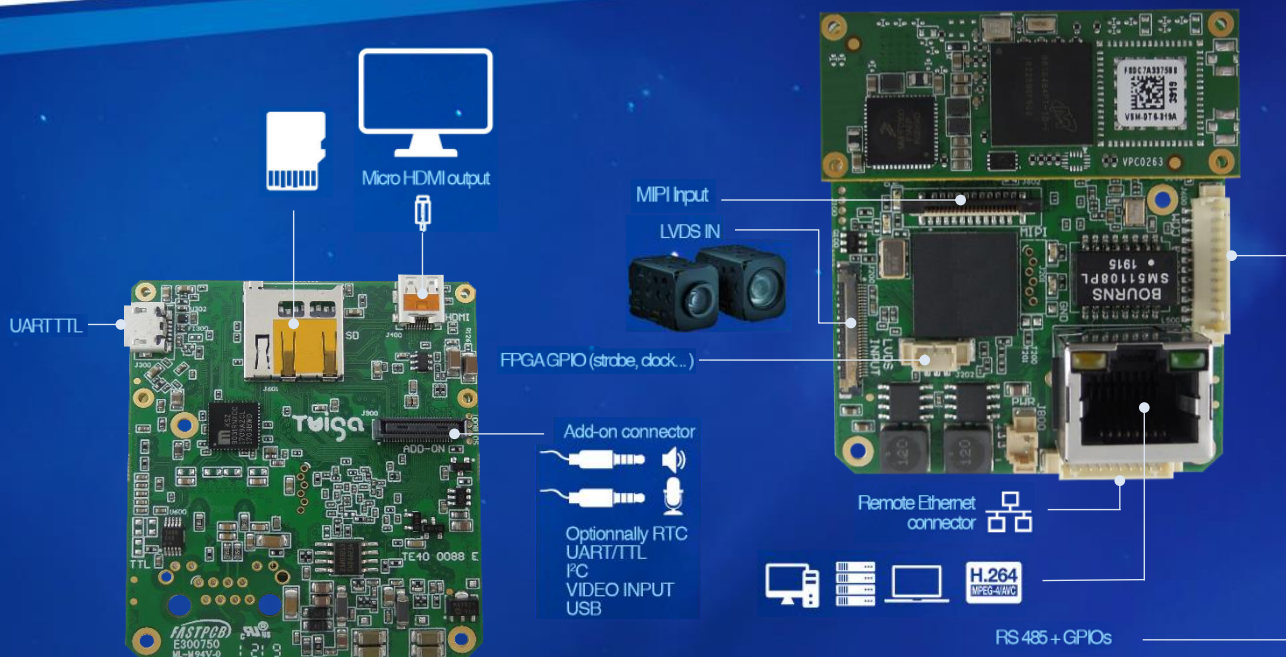
This smart video platform is ideal for customer to easily implement their video processing algorithms and develop their customized software application.

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

Onboard Connectors



Blue Mamba – IP Video streaming platform

Product code	TV80 0065
Multimedia	
Video Encode / decode	1080p60 h.264 Decode, 1080p30 h.264 Encode
Streaming	RTSP stream (128 to 20000 kbit/s)
Video Input	
LVDS	x1
MIPI	x1
Video Output	
HDMI	x1 – 1.4a (1920x1080)
Ethernet	10/100 Mbit/s Ethernet (Remote RJ45)
Connectivity	
Micro USB OTG/Host UART	x1
RS485	x3 up to 3.6Mbps x1
TTL	x1
GPIO's	Up to 8
CPU	
CPU Name/type	NXP/ freescale i.MX6 Dual core ARM® CortexTM-A9 Core
CPU clock (Max) Memory	800 MHz
Memory	
LPDDR2 RAM	1024 MB LPDDR2
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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