

Mars RF

H.265 DVR and streamer for miniature drones

Mars RF is a cutting-edge H.265 DVR and video streamer designed for miniature drone applications. Miniature, ultra lightweight, and ultra-low power, it offers unmatched versatility with wireless connectivity over a serial interface. Mars RF connects to the drone's autopilot system, camera and radio, offering a complete solution for miniature drones and ensuring reliable performance in demanding environments.



Markets and Applications

Defense

Commercial

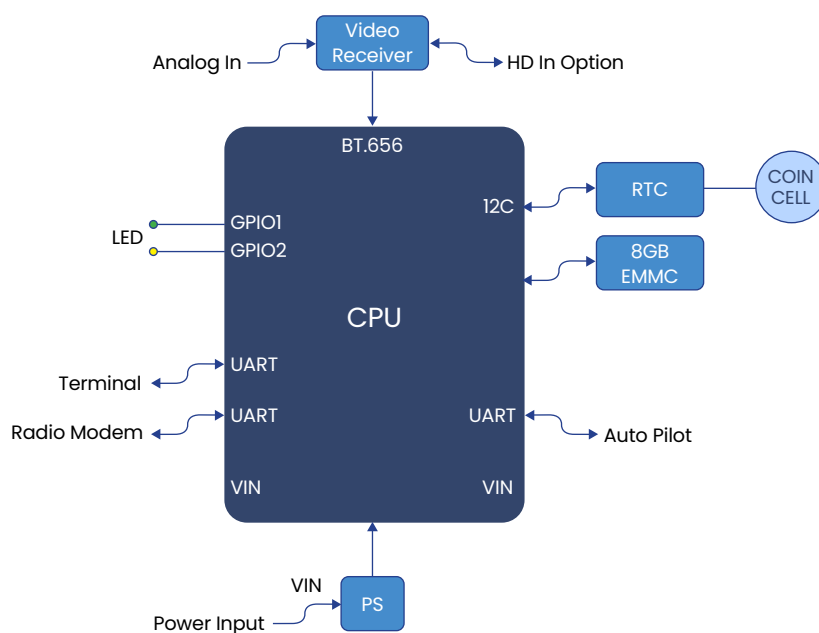
Key Benefits

- Best-in-class SWaP: miniature, ultra lightweight, and ultra-low power consumption, ideal for miniature drone applications
- Supports H.265 video encoding for superior streaming quality
- Ultra-low latency, end-to-end high-performance streaming of up to 125ms

Key Features

- Wireless connectivity over a serial port
- Ultra-fast wake up time (less than one second)
- Power below 1W
- Weighs less than 4 grams
- Supports RTP (Unicast/Multicast) and RTSP streaming over Ethernet
- USB mass storage capability
- PC-based setup via USB or Ethernet for user-friendly configuration

Block Diagram



Technical Specifications

Functionality:

- CVBS analog video input
- Microphone audio input
- Encode H.265 video channels and AAC audio
- Record MP4 files on EMMC
- Act as USB mass storage device when connected to PC
- Maintain RTC with battery backup
- Set up using PC App via USB
- MAVLink protocol support

Wireless Connectivity Options over serial port

Interfaces:

- USB OTG
- CVBS Input
- On board Mic.
- On board EMMC (8GB)