

DM5680

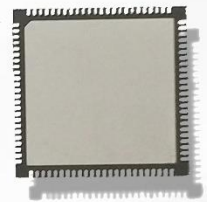
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Wireless Video Transceiver with Near Zero Latency

DM5680 is a wireless HD video transceiver IC with near zero latency. A pair of DM5680 working as transmitter and receiver provides unparalleled robust video/audio/data secure links from air to ground unit. DM5680 transmits raw video instead of compressed video stream in order to reach less than 1 millisecond latency. The excellent capability of anti-interference, low power consumption and smaller footprint make DM5680 a perfect solution for First Person View (FPV) applications. DM5680 works seamlessly with AD936X for a complete video wireless link solution.



Key Features

- Near Zero Latency
- Smart de-Noise
- Stable Reception in Long Distance/ High Velocity Scenario
- Up to Full HD 1080P30
- No Video Compression Needed
- Built in OSD for Displaying

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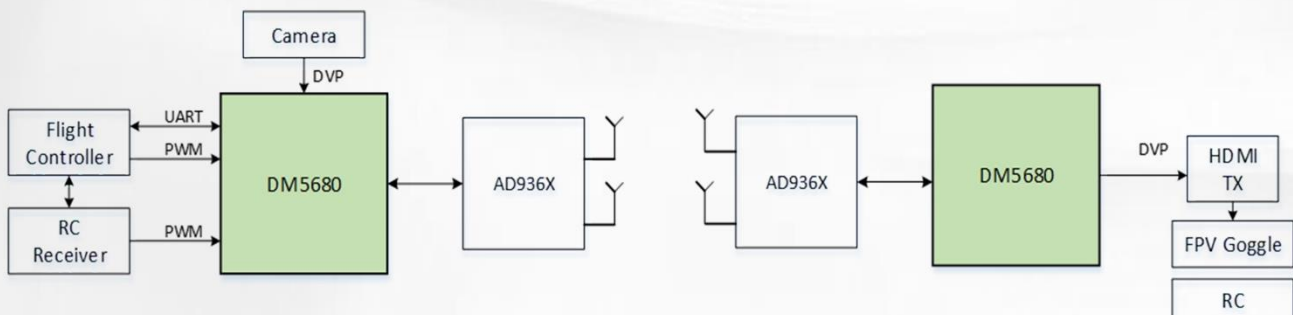
Near Zero Latency

The link latency of DM5680 (from DVP input at air unit to DVP output at ground) is less than 1 millisecond. Including the latency from CMOS sensor and display or FPV goggle, the glass (at camera) to glass (at goggle) latency is around 25 millisecond, almost the same as analog vision link.

Smart de-Noise

In low SNR scenario, the traditional digital video link is not able to provide stable data stream, thus blacks out display. DM5680 employs innovative anti-interference technology to provide robust video link.

Parameter	Specifications
Transmission range (line-of-sight)	1.3km (5.8GHz, 20dBm) 22km (520MHz, 30dBm)
Bandwidth	6~27MHz
Video Interface	DVP (BT656/BT1120 like)
Audio Interface	I2S
Peripherals	2xUART 2xPWM 4xGPIO Serial Data Port
Package	Small footprint 96-QFN, 10x10mm
Power Supply	1.2V/3.3V
Power Consumption	200mW typical
Operation Temperature	-40°C~70°C



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