



TXW827  
QFN68

## TXW827

### High Performance ISP+Video+Wi-Fi/BLE SOC

The TXW827 is a high-performance, highly integrated dual-core audio and video wireless SoC chip. It internally integrates 2.4GHz Wi-Fi, BLE, StarFlash SLE, high-performance ISP image processing, H.264/MJPEG codec, featuring excellent RF performance, outstanding image processing capability, encoding quality, and low bit rate. It also integrates a security algorithm acceleration engine and has a comprehensive range of peripheral interfaces, including audio ADC/DAC, MIPI CSI, MIPI DSI, DVP, LCD, RMI MAC, USB 2.0 High Speed Host/Device, SDMMC Host, IIS, and PDM, among others.

The TXW827 supports program execution on SPI Flash. It supports RTOS and third-party components and provides an open and easy-to-use development and debugging environment. The TXW827 is available in mainstream QFN48 package types. Depending on the specific package, the peripheral resources within the device may vary; some packages support built-in PSRAM and Flash.

#### TXW827 Wi-Fi SOC

- Dual core 240MHz
- 32KB I-cache, 32KB D-cache
- 368KB SRAM(560KB MAX)
- Built-in 4MB PSRAM
- SPI Flash firmware encryption protection
- H.264/MJPEG Codec(1080P)
- USB 2.0 Host/Device
- 2.4GHz Wi-Fi (150Mbps MAX)
- Wi-Fi/BLE co-existence
- MIPI CSI
- Image Signal Processor(ISP)

#### Applications

- FPV devices
- IPC(multi-cameras)
- Baby monitor
- Intercom
- Dash Camera(multi-channels)



For more information please visit: <https://txw.ac/chips/txw827>