



HLK-MT7688A Serial to WiFi wireless router module

HLK-MT7688A is small size with high performance serial port Wi-Fi routing module. Support serial port two-way passthrough/openwrt secondary development

Features:

- Mediatek MT7688AN chip solution
- Support AP, STA and AP + STA modes
- Rich peripheral interface, SPI, I2C, I2S, PCM, UART, JTAG, GPIO
- Support openwrt secondary development, provide SDK

Specifications:

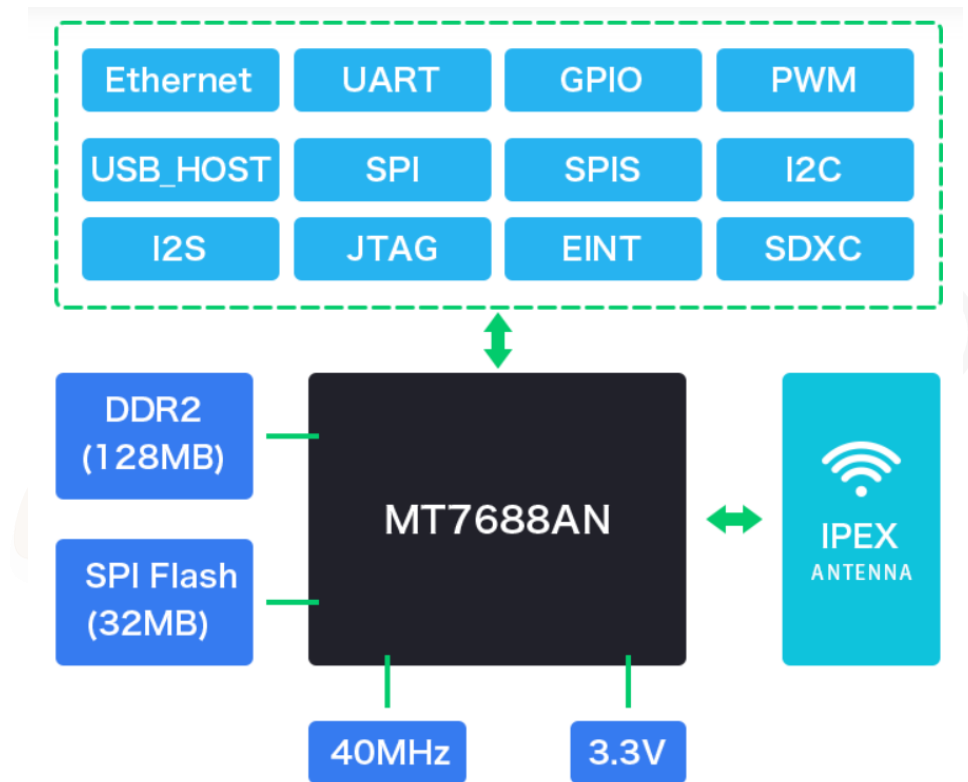
- Super data processing capability, MCU frequency upto 580MHZ
- 150M wireless transmission rate
- Support 802.11b/g/n/v mode
- 20/40 channel bandwidth
- Support AP, STA and AP+STA mixed mode
- 5 10/100M adaptive network ports, 1 USB2.0 host interface, with SPI/SD-XC/eMMC

- Rich peripheral interfaces, SPI, I2C, I2S, PCM, UART, JTAG, GPIO
- Support multiple encryption methods WEP64/128, TKIP, AES, WPA, WPA2, WAPI
- Support QoS, WMM, WMM-PS
- Support Linux2.6.36 SDK, OpenWrt3.10

Basic parameters:

- Main chip :- MT7688AN
- Kernel :- MIPS24KEc
- RAM :- DDR2 128MB (customizable)
- Flash :- 32MB (customizable)
- Interface Type :- UART, I2C, PWM, GPIO/PWM, ADC, SPI, I2S
- Antenna type :- external antenna
- WiFi working mode :- STA/AP/STA+AP
- WDS function :- Support WDS wireless bridging
- Wireless security :- 64/128/152 bit WEP encryption WPA-PSK/WPA2-PSK, WPA/WPA2 security mechanism
- Network management: Remote WEB management
 - Configuration file import and export
 - WEB software upgrade
- Operating Voltage :- Standard DC3.3V±0.2V
- No-load running current :- 170±50mA
- Environmental standards: Working temperature: -40~80°C
 - Working humidity: 10%~90%RH (non-condensing)
 - Storage temperature: -40~40°C
 - Storage humidity: 5%~90%RH (non-condensing)
- Size :- 32.8×18×2.8mm

Block diagram:



Applications:

- Smart home
- Internet of things control
- Industrial interconnection
- smart gateway