



AI7688H

SKU 317060162

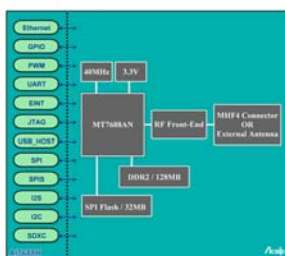
It is a Linux, Wi-Fi, SOC, open development platform based on the OpenWrt Linux distribution designed to enable the prototyping of IoT devices.



Description

AI7688H is a Linux, Wi-Fi, SOC, open development platform based on the OpenWrt Linux distribution designed to enable the prototyping of IoT devices. These devices include Wi-Fi security web cam and sensors for the home or office, real time camera monitor for toddler and seniors as well as cloud-based applications. AI7688H provides generous memory and storage to enable rich application developments. The platform also offers options to create device applications using Python, Node.js or C.

Block diagram



Key-feature

- Embedded MIPS24KEc (575/580 MHz) with 64 KB I-Cache and 32 KB D-Cache
- 1T1R 2.4 GHz with 150 Mbps PHY data rate
- Legacy 802.11b/g and HT 802.11n modes
- 20/40 MHz channel bandwidth
- 802.11v
- Green AP/STA - Intelligent Clock Scaling (exclusive) - DDRII: ODT off, Self-refresh mode
- 1-port 10/100 FE PHY
- x1 USB 2.0 Host
- SPI/SD-XC/eMMC
- SPI,I2C, I2S,PCM, UART, JTAG, GPIO
- Internet Of Thing
- An optimized PMU
- 16 Multiple BSSID
- WEP64/128, TKIP,AES, WPA, WPA2, WAPI
- QoS: WMM, WMM-PS
- AP/STA Firmware: Linux 2.6.36 SDK, OpenWrt 3.10

Part List:

1 x AI7688H module