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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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AI7688H

SKU 317060162

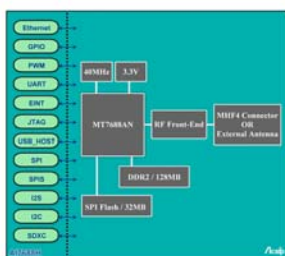
It is a Linux, Wi-Fi, SOC, open development platform based on the OpenWrt Linux distribution designed to enable the prototyping of IoT devices.



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