IR08 low cost and low power consumption IOT module serial to ethernet serial to wifi router module

IR08 supports Linux, OpenWRT operating system and custom development. It could be widely applied to smart devices or cloud services application with its rich interface and powerful processors.In order to test module easier, there are development boards available.

Basic Parameters

- High data processing ability , MCU frequency 580MHz
- 150M Mbps
- Support 802.11b/g/n
- 20/40 Channel bandwidth
- Support 802.11v
- Support AP,STA and AP,STA mixed
- Five 10/100M ETH PORT
- 1 USB2.0 Host interface port
- Interface SPI/SD-XC/eMMC
- Rich peripheral interfaces, SPI,12C,12S,PCM,UART,JTAG,GPIO
- Widely used in IOT
- Inbuilt powerful PMU
- Support 16 Multiple BSSID
- Support multiple security methods WEP64/128,TKIP,AES,WPA,WPA2,WAPI
- Support QoS, WMM, WMM-PS
- Support Linux 2.6.36 SDK, OpenWrt3.10

Technical Specifications

The main chip	MT7688AN
The kernel	MIPS24KEc
frequency	580MHz
memory	DDR2 128MB(Can be customized)
Flash	32MB(Can be customized)
The interface type	UART/12C/PWM/GPIO/PWM/ADC/SPI/12S
Antenna	
Antenna type	External Antenna(IPEX)
Functional Parameters	
WIFI work mode	STA/AP/STA+AP

WDS Function	Support WDS wireless bridge connection
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
Other Parameters	
Working voltage	Standard DC3.3 V + - 02 V
No-load running current	170±50mA
Environmental standard	Operating temperature:-40-80 Centigrade
	Operating humidity:10%-90%RH(noncondensing)
	Storage temperature:-40-40 Centigrade
	Storage humidity:5%-90%RH(noncondensing)
size	32.8*18*2.8mm

Note: This product is only including one 7688A module and our default version is openwrt version,if you need the test board or the transparent version with our software,please make notes ,or contact with us:

Order Information

Product Description	Order Code
consumption IOT module	IR08