HAC Telecom HAC-WF Wireless Router Module Instruction Manual

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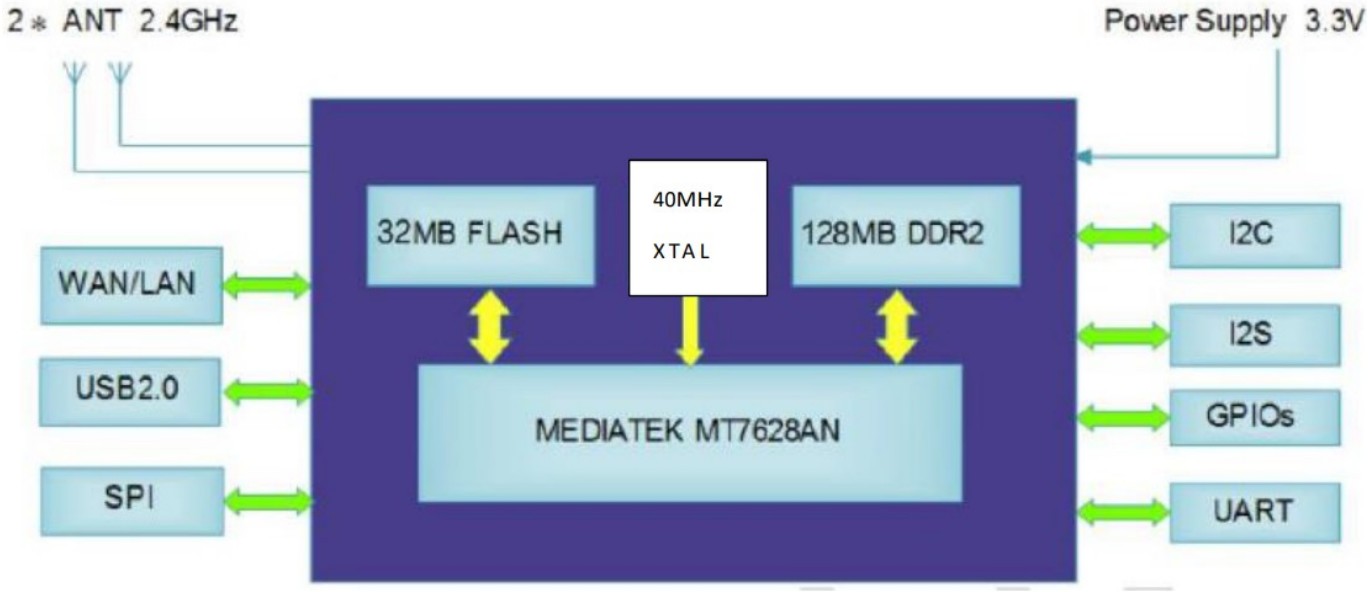
Production description

HAC-WF is a wireless router module based on the MT7628N chip. It supports IEEE802.11b/g/n standards, and the module can be widely used in IP cameras, smart homes and Internet of Things projects. HAC-WF module supports both wired and wireless connection methods, with excellent radio frequency performance, wireless transmission is more stable, and the wireless transmission rate can reach 300Mbps.

Product spec.

Comply with IEEE802.11b/g/n standard; Support frequency: 2.402~2.462GHz; The wireless transmission rate is up to 300Mbps; Support two antenna connection methods: IPEX and Layout;
Power supply range 3.3V±0.2V;

Support IP cameras;
Support security monitoring;
Support smart home applications;
Support wireless intelligent control;
Support wireless security NVR system;


2 * ANT 2.4GHz
Power Supply 3.3V
32MB FLASH
40MHz
XTAL
128MB DDR2
WAN/LAN
USB2.0
SPI
MEDIATEK MT7628AN
I2C
I2S
GPIOs
UART

ITEMS	CONTENTS
Operating Frequency	2.400-2.4835GHz
IEEE Standard	802.11b/g/n
Modulation	llb: CCK, DQPSK, DBPSK11g: 64-QAM,16-QAM, QPSK, BPSK lln: 64-QAM,I6-QAM, QPSK, BPSK
Data rates	llb:1,2,5.5 and 11Mbps11g:6,9,12,18,24,36,48 and 54 MbpsIln:MCS0-15 , HT20 reach up to 144.4Mbps, HT40 reach up to 300Mbps
RX Sensitivity	-95dBm (Min)
TX Power	20dBm (Max)
Host Interface	I*WAN, 4•LAN, Host USB2.0 , 12C , SD-XC, 12S/PCM, 2•UART,SPI,multiple GPIO
Antenna Type	(1)Connect to the external antenna through i-pex connector; (2)Layout and connect with other type connector;
Dimension	Typical (L X W X H): 47.6mm x 26mm x 2.5mm Tolerance: ±0.15mm
Operation Temperature	-10°C to +50°C
Storage Temperature	-40°C to +70°C
Operation Voltage	3.3V±0.2V/800mA

Certification warning

CE/UKCA:
Operating frequency range **2402-2462MHz Max.** output power: 20dBm for **C E**

Correct Disposal of this product. This marking indicates that this product should not be disposed of with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product

was purchased. They can take this product for environmentally safe recycling.

FCC:
This device complies with Part 15 of the FC C Rules. Operation is subject to the following two conditions: **(1)** this device may not cause harmful interference, and **(2)** this device must accept any interference received, including interference that may cause undesired operation.
Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FC C Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FC C radiation exposure limits set forth for an uncontrolled environment.
RF Exposure Statement:
This equipment complies with FCC radiation exposure limits: This Transmitter must be installed to provide a separation distance of at least 20 cm from all persons.
Labelling
The proposed FCC label format is to be placed on the module. If it is not visible when the module is installed into the system, "Contains FCC ID: WMUHAC-WF" shall be placed on the outside of final host system.

Antenna #	Model	Manufacturer	Antenna Gain	Antenna Type	Connector Type
1#	SA05A01RA	HL GLOBAL	5.4dBiforAntO 5.0dBi for Antl	PIFA antenna	IPEX Connector
2#	SA03A01RA	HL GLOBAL	5.4dBiforAntO 5.0dBi for Antl	PI FA antenna	IPEX Connector
3#	SA05A02RA	HL GLOBAL	5.4dBiforAntO 5.0dBi for Antl	PI FA antenna	IPEX Connector
4#	6147F00013	Signal Plus	3.0 dBi for AntO & Anti	PCB Layout Antenna	IPEX Connector
5#	K7ABLG2G4ML400	Shenzhen HAC Wireless	2.0 dBi for Ant O & Ant1	Fiber Glass Antenna	N-Type Male

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Documents / Resources

	HAC Telecom HAC-WF Wireless Router Module [pdf] Instruction Manual WMUHAC-WF, WMUHACWF, HAC-WF, HAC-WF Wireless Router Module, Wireless Router Module, Router Module

References

- LoRaWAN Module, NB-IoT Module, Pulse Reader, AMR System -HAC