



FCC ID: 2AR4X-H1

Model name: H1

Wireless Power Charging

1. Instruction

1.1 Configuration parameters

Input voltage	9-16V
Output power	5W (5V/1A)
Wireless charging frequency	110KHZ
Stand-by current	≤100mA (12V)
Full load input current	≤1A (12V) ; ≤1.3A (9V)
Charging distance	0mm
Wireless charging	
conversion efficiency	Maximum efficiency: 65%
	70mm*30mm (Transmitting coil and receiving coil spacing
Maximum charging range	7mm)
QI certification	stand by
Overvoltage protection	19.2V±5%
Overpressure recovery	19V±5%
Undervoltage protection	8.3V±5%
Undervoltage recovery	8.5V±5%
Over temperature protection	65°C (protection) /50°C (recovery)
Overcurrent protection	4A
	Can detect metal foreign objects existing between
FOD Detection	equipment and products
Working temperature	-20℃~70℃
Storage ambient temperature	-30°C~80°C

1.2 Instructions for use

1.2.1 Features

1.2.1.1 Suitable for mobile phones

Support wireless charging mobile phone

- 三星 Samsung Note5/Note6/Note7/Note8/S6/S7/S8/S9/S9+等
- 苹果 iPhone XR/XS/XS MAX/8/8 plus/X
- 华为 HUAWEI Mate 20 RS/ Mate 20 Pro/ Mate RS
- 小米 XIAOMI Mix 3/ Mix 2S/8
- 1.2.1.2 Charging location:

(1) The center of the equipment should be aligned with the center mark of the charging module (the position of the charging symbol).it

will cause the charging efficiency to decrease, the heat generation will increase, and the charging function will be interrupted If the deviation from the center mark.

(2) The effective charging distance between the product and the device is 0mm ;

If the distance is too high, it will stop charging. It is recommended not to use a thick mobile phone case during charging.

1.2.1.3 Product Composition



①Universal module ② UBS ③ Blue LED light

1.2.1.4. Over temperature protection

There are Temperature detection element inside the product

- (1) Internal temperature>65°C, Stop charging
- (2) Internal temperature < 50°C, Resume charging



The product has metal foreign object detection function Troubleshooting

2. Circuit principle description

1. The principle of wireless charging: a device that uses the principle of electromagnetic induction to charge, similar to a transformer, has a coil at the transmitting and receiving ends, the transmitting end coil is connected with a wired power source to generate an electromagnetic signal, and the receiving end coil senses an electromagnetic signal at the transmitting end, thereby generating a current to Power equipment such as batteries. That is, wireless charging technology requires two devices: RX (receiving device, which is the product to be charged), TX (transmitting device)

2、USB principle: The voltage that is not suitable for direct charging of the mobile phone is directly adjusted to the voltage directly used by the mobile phone through the DC TO DC Buck

- 2.1 Frequency range: 110K±5K
- 2.2 Modulation method: Fixed frequency voltage regulation
- 2.3 Number of channels: NO
- 2.4 Using bandwidth: NO
- 2.5 channel spacing: NO
- 2.6 Output power: 5W
- 2.7 work cycle: 1/110K
- 2.8 antenna: NO
- 2.9 Data transmission rate: 2Kbit/S
- 2.10 communication method: Wireless communication, Differential biphase coding
- 2.11 Frequency hopping mode: 无 NO

FCC warning:

This device complies with part 15 of the FCC 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.

Any 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 FCC 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.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body

FCC ID: 2AR4X-H1