

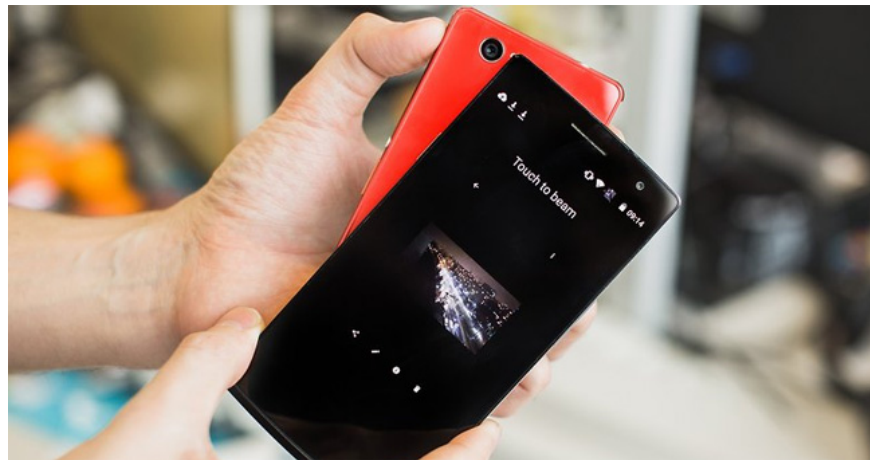
What is theory - NFC on Mobile devices?

NFC is a wireless connection technology within a short range within 4 cm distance. This technology uses magnetic induction (based on the NFC chip available in the device) to make connections between devices.

NFC - Near Field Communications, informatics term for mobile devices is very familiar to mobile and tablet users. In the past, if we wanted to transfer data (photos, videos, music .), we often had to turn on Bluetooth, then pair two devices together. This approach has the disadvantage of unstable file download speed (many devices are not compatible with each other), easily attacked by hackers. As for NFC, the security capability has been greatly improved (because the distance between the two devices is only 4 - 10 cm).

1. What is NFC definition?

As mentioned above, **NFC is a wireless connection technology within a short** range within 4 cm distance. This technology uses magnetic induction (based on the NFC chip available in the device) to make connections between devices (smartphone, tablet, speaker, headset .) when there is direct contact (touch, This means 2 devices are very close together, touching each other). You can imagine the NFC chip here works like the old memory card reader on the computer, is a significant upgrade of the available Proximity Card Standard (RFID), which is a combination of smartcard and reader.



With NFC, users can easily share information, data, make payment transactions securely in crowded places, without having to worry about security.

2. Compare NFC with Bluetooth:

1. NFC setup time is much faster than Bluetooth:

1. With Bluetooth: you must turn on, configure settings to identify devices.
2. As for NFC, the connection time between the two devices is very fast (in theory, it is only 1/10 second).
2. Because of its high frequency operation, NFC is more secure and secure.
3. NFC can still operate in the state of your phone, your tablet runs out of battery (???)

The downside of NFC is that not all devices have this feature.

1. What is Bluetooth 5? What benefits does it have for our lives?

3. What can NFC do?

You can use NFC on your phone to quickly share phone numbers, photos, applications, document files, routes on the map, launch applications. Even more convenient, you can pay for your purchases just by tapping your phone on an NFC-enabled payment device.



4. How do I know if an Android phone has NFC?

Very simple. Just open *Settings* > *More* or *Settings* > *Wireless & Networks* (this operation may be different on each device and Android version, in short, find the network settings and wireless connection) and see if there is an option. NFC hidden in it or not. Most NFC-enabled smartphones will leave the small NFC logo on the back of the device. You just need to turn on NFC and try to see how easy this short-range connection technology is!

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