



Introduction

HUAWEI MediaPad 10 Link (MediaPad 10 Link for short) is a 10.1-inch tablet computer that simultaneously supports 3G ,LTE,Wi-Fi and BT data services, and has an ultra high definition IPS screen with a resolution of up to 1280 × 800 pixels. MediaPad 10 Link incorporates Huawei's own Hislicon processor and is based on the Android operating system, enjoying both Google Android Play Store and Huawei's unique Cloud+ solutions.

Intended use statements

With an aluminum-alloy housing and ultra-thin 9.9 mm design, MediaPad 10 Link is stylish,slim,and easy to carry.

MediaPad 10 Link has a IPS screen with a resolution of up to 1280 × 800 pixels. It comes with a front camera,and a rear camera.The front camera can be used in video calls,while the rear camera can record video.This video capability,combined with MediaPad 10 Link's Dolby surround sound technology,delivers superb audiovisual quality,when users are taking photos,playing game,watching HD movies,or listening to music.

Bluetooth Frequency Range

2.402G-2.480GHz

Range of average conduct power

Bluetooth: 0dBm- 7dBm.

Antenna description

Technical parameters of the HUAWEI MediaPad S10-201L Information terminal Bluetooth antenna:

Item	Description
Frequency	2.402GHz to2.480GHz
Input impedance	50 Ohm
VSWR	<2
Gain	<3dBi
Max. power	10mW(AVG)
Polarization Type	Monopole

Bluetooth chip Applied voltages

Normal Voltage: 3.7V

Modulation Techniques

GFSK, $\pi/4$ -DQPSK, 8DPSK

Description of Frequency Hopping Technology

Frequency hopping is used in Bluetooth networks mainly as a spread spectrum technique and to reduce interference. The RF channel is changed in a pseudo-random way after each timeslot (i. e. after each 625 μ s, corresponding to a rate of approx 1600 hops per second), so that the whole available frequency spectrum can be used. A hopping sequence defines the order of the RF channels. This hopping sequence is determined by the Bluetooth device address of the master and must be used by all Bluetooth devices in the piconet. The timing is based on the clock of the Bluetooth master.

The following channels and frequency ranges are available in the different countries:

Europe/USA 2402 MHz to 2480 MHz, Channelk: $f_k = 2402 + k$ MHz, $k = 0$ to 78

Japan 2471 MHz to 2497 MHz, Channelk: $f_k = 2473 + k$ MHz, $k = 0$ to 22

France 2446.5 MHz to 2483.5 MHz, Channelk: $f_k = 2454 + k$ MHz, $k = 0$ to 22

Spain 2445 MHz to 2475.5 MHz, Channelk: $f_k = 2449 + k$ MHz, $k = 0$ to 22

Description of Digital Modulation Techniques

Bluetooth transceivers operate in the 2.4GHz ISM band. The frequency range is 2402MHz to 2480MHz (in most countries). The channel spacing is 1MHz, with an upper and lower guard band. Output power is also specified, Bluetooth uses GFSK(Gaussian Frequency Shift Keying), $\pi/4$ -DQPSK and 8DPSK as its modulation. The corresponding symbol rate is 1Mbps, 2Mbps and 3Mbps.

The 2.4GHz band is part of the ISM (Industrial, Scientific, and Medical) license-free radio bands. Both Bluetooth and 802.11 operate within the band. Additional frequencies of the ISM band include the 900MHz band, and 5.8GHz band. The un-licensed ISM band also means that devices need to short range so they do not interfere with other devices which may also be using the band.

Description RF test method

The computer sets HUAWEI MediaPad S10-201L to the Factory test mode and works at Bluetooth mode and sets the CMU200 to Bluetooth Analyzer mode.



HUAWEI MediaPad S10-201L's Bluetooth chip connects with CMU200 through SMA interface or Antenna, then all the bluetooth RF performances can be tested.