

## Technical Description

CubieVia 2.0

Model: BPEVA2

The device under test (EUT) is wireless charging +2 channel type c port output equipment, AC to DC, DC12V input BUCK IC U3 SIT3470 buck voltage of 9V to make wireless charging module work, CWT1004M wireless charging master IC and MOS driver circuit to make wireless charging output 5W, 7.5W, 10W. The wireless charging frequency is 112 to 205kHz. For more detailed features description, please refer to the user's manual.

Technical notes:

1. This wireless Charger power transfer frequency is 112-205kHz;
2. The maximum output power of the main coil is 10 watts;
3. The maximum coupling surface area of the WPT source is 10.88cm<sup>2</sup>;
4. The transfer system includes only single coil;
5. Client device is placed directly in contact with the transmitter;
6. The charger belongs to the mobile device and subjects to mobile exposure conditions only.
7. The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface are demonstrated to be less than 50% of the MPE limit.

The function of AC TO DC main IC is mentioned as below:

01. PWM control IC: U1 (U1 acts as chip OB2736)
02. Synchronous rectifier control chip: U5 (U5 acts as chip OB2009)
03. Protocol control IC: U7 (U7 acts as chip IP6538)

The function of Wireless main IC is mentioned as below:

01. Main IC: U1(U1 acts as chip CWT1004M) is a wireless charging chip
02. BUCK IC: U3(U3 acts as chip SIT3470) is a Buck chip