

0702 circuit Technical Description

The Equipment Under Test (EUT) is a Mini PC with Wifi operating at 2.412-2.462GHz, 11 channels selection separated by 5MHz channel spacing. The EUT can carry out the base function of PC. The device is powered by 1x3.7V rechargeable battery or AC 120V/60Hz via an external Adapter.

Type of Modulation: CCK for 802.11b and OFDM for 802.11g/n.

Antenna Type: Internal integral PIFA Antenna.

Frequency List:

2412MHz, 2417MHz, 2422MHz, 2427MHz, 2432MHz, 2437MHz,
2442MHz, 2447MHz, 2452MHz, 2457MHz, 2462MHz

Main IC Function:

At MAIN PCB

- 1) U1(InfoTM IMP210) is CPU with varied function such as Control Unit Arithmetic Logic Unit.
- 2) U2, U3 are DDR2 SDRAM.
- 3) U9 is NAND flash memory.
- 4) U7 is Stereo CODEC.
- 5) U10 is System-on-chip Processor.

- 6) U23 is Surface Mount type 4 Direction Detector.
- 7) U18, U14, U15 are Synchronous Buck Regulator.
- 8) U17 is Smart Card Interface.
- 9) U16, U20, U21 are compatible D/A converter.
- 10) U22 is I2C TOUCH SCREEN CONTROLLER.
- 11) U4, U12, U13, U5, U6 are power regulator.
- 12) X1 is oscillator for U1 main frequency.
- 13) X2 is oscillator for U1 RTC frequency.

WiFi board:

- 1) U2 is WiFi chip which generate the RF signal.
- 2) XTAL1 is OSC for U2.