Operation Description of Transmitter

The device is a IP based walkie talkie device that enables instant voice communication over wireless LAN environment.The device can transmit and receive signals over a 802.11b/g Wi-Fi network.

Operation Frequency:

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

Modulation Type:

CCK 1，2，5.5 and 11M bps
OFDM 6，9，12，18，24，36，48 and 54M bps

The transmitter is formed by 2 parts:
1).MCU:BC5 and its around circuit
2).RF Module: Unifi1050 and its around circuit. The RF module soldered directly on main PCB.
MCU BC5 parameters frequency channel and RF power according to the selection of users. Data is sent to RF module by SDIO bus.BC5 sent a control code to control RF Module transmission.2.4GHz RF signal is transmitted by antenna.
The antenna is a embedded antenna (CBA-1204-2G4S2-A2), it soldered onto the PCB - no cables or connectors. The antenna gain is 2.5dBi.
The USB port (locate in the bottom of the device) is used for charging function only.