

## circuit description

BMT include transmitter and receiver parts.

Transmitter is build up of one microphone, two keys, memory, one camera, one imagine and voice processor, one 26MHz and one 32.768KHz crystal for processor and one 18MHz crystal for RF Part, one 2.4G RF transmitter. And power grid include one +5V power source and one +3.6V battery. Battery can be recharged with +5V power supply by using on board charging circuit. Processor, camera and RF parts share different LDO. When power on, Processor works first to build up necessary communication chains for RF and other parts. With defined delay time, RF part work and build up wireless chain with receiver part. When wireless chain build chain successfully, then camera and microphone can work, and sending imagine and voice by using wireless chain.

Receiver is build up of one speaker, one LCD, four keys, memory, one 26MHz and one 32.768KHz crystal for processor and one 18MHz crystal for RF Part, one imagine and voice processor, one 2.4G RF receiver. Power gird include +5V power source and +3.6V battery. Battery can be recharged with +5V power supply by using on board charging circuit. Processor and RF part share different LDO. When power on, Processor works first. When processor work stable, RF part work and communicate with transmitter by using build up wireless chain. Receiver receives voice and imagine signal, and send to processor, processor separate to speaker and LCD to show received voice and imagine.