

Introduction to Design Plan of Transmitter

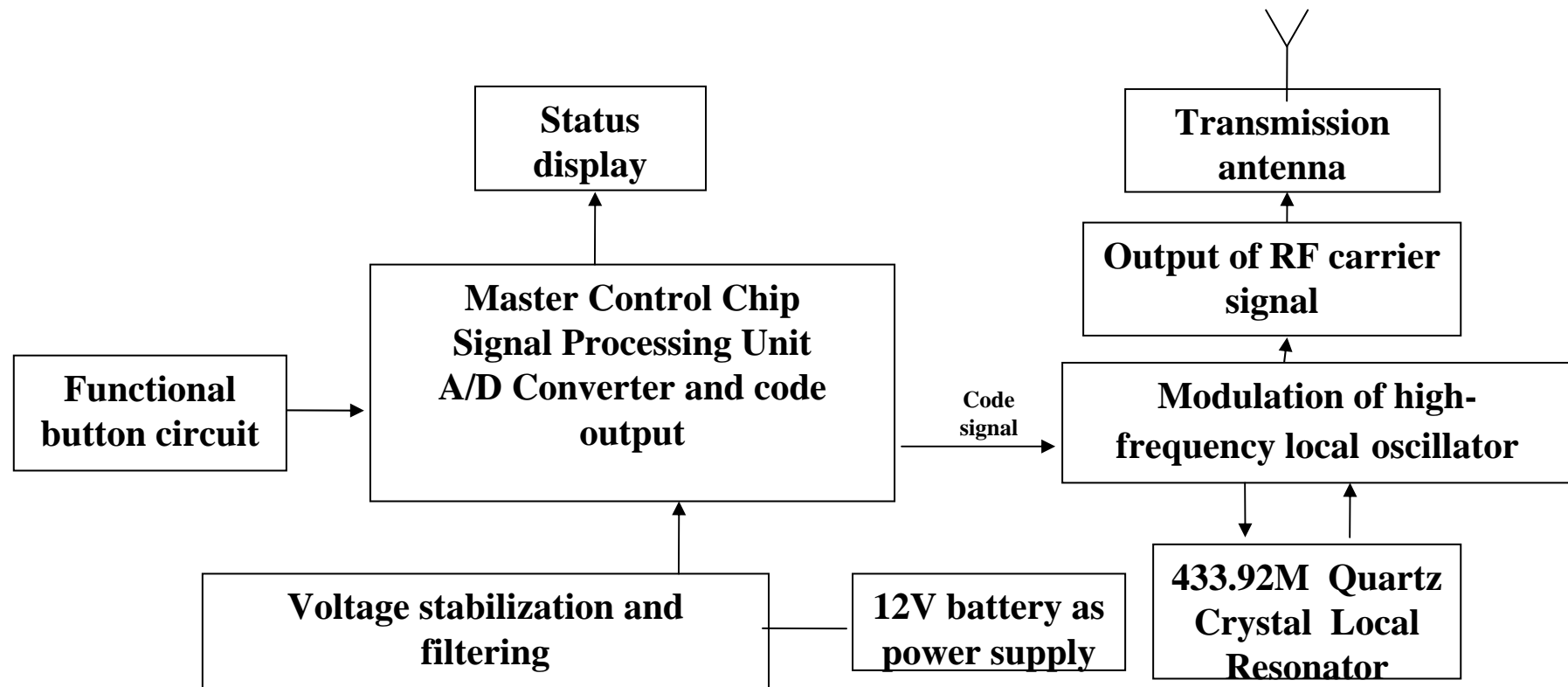
Transmitter



Operating Principle

- Master Control Chip conducts data analysis and identification on button demand through button scan. Analog signal will be converted to digital signal through A/D Converter, and corresponding code signal will be output following operation.
- After the user's button demand is processed to code signal , the code signal will be loaded to high-frequency local oscillator signal by frequency mixing so as to form radio-frequency signal satisfying requirement of transmission.
- Code signal is loaded to radio-frequency signal and is transmitted to surrounding environment by antenna via transmission circuit, in order to control action of receiver.

Logic Block Diagram



Electric Parameters and Properties

- Voltage of power supply: 23A battery, 12VDC
- Transmission amplitude :
 - Principal wave +17DB
 - Secondary harmonic -18DB
- Transmission frequency: 433.92MHZ (+/- 20PPM)
- Modulation model: AM

Application Method

- Press Start button of receiver, and the system starts in ready mode ;
- Long press ON/OFF button for 3 seconds, the product will work in F1 mode and start vibration;
- Press 4F button of remote-controller, the product will work in F2 mode and accelerate vibration;
- Press 4F button of remote-controller again, the product will work in F3 mode and vibrate at the highest speed;
- Press 4F button of remote-controller again, the product will work in F4 mode and pulse vibration mode. The four modes may change from F1 to F4 repeatedly.
- Long press ON/OFF button for 3 seconds again, the product will turn off and stop work;
- Red light of LED can be seen while pressing button.

- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.
- changes or modifications not expressly approved by the party responsible for compliance
- could void the user's authority to operate the equipment.
- NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are
- designed to provide reasonable protection against harmful interference in a
- residential installation. This equipment generates, uses and can radiate radio
- frequency energy and, if not installed and used in accordance with the
- instructions, may cause harmful interference to radio communications. However,
- there is no guarantee that interference will not occur in a particular installation.
- If this equipment does cause harmful interference to radio or television reception,
- which can be determined by turning the equipment off and on, the user is
- encouraged to try to correct the interference by one or more of the following
- measures:
- -- Reorient or relocate the receiving antenna.
- -- Increase the separation between the equipment and receiver.
- -- Connect the equipment into an outlet on a circuit different
- from that to which the receiver is connected.
- -- Consult the dealer or an experienced radio/TV technician for help.