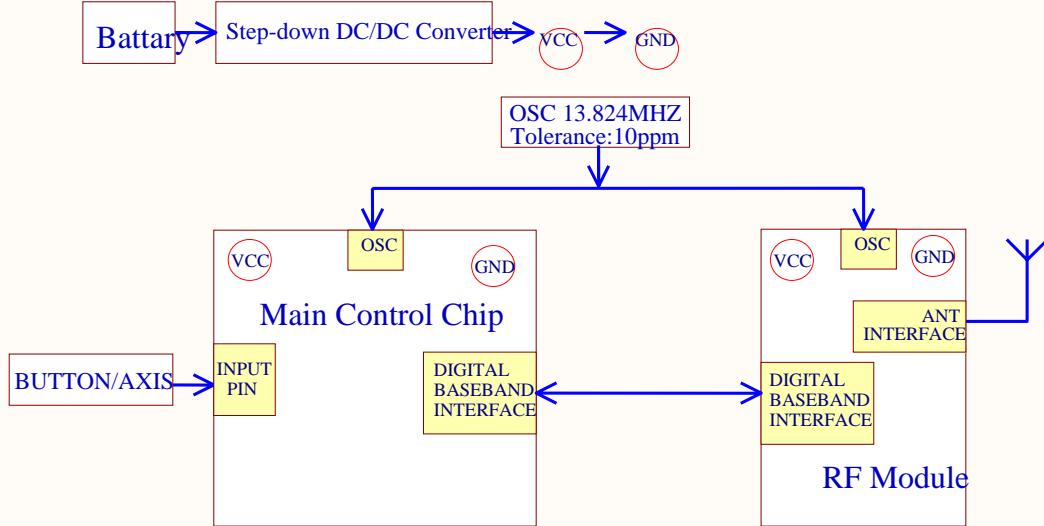


2.4GHz RF XBOX Wireless Controller Working Principle

It is a 2.4G RF product. It works at the frequency range of 2402MHz to 2481MHz. There are up to 80 channels, and the frequency interval between each channel is 1MHz.

The “device” have three subsections. 1: Main control chip. 2. RF Module.3.The power supply circuit



Subsection 1:

The main control chip working procedures:

- When power on, the main control chip will search all of the channels, to see whether there is a Host .
- If it can connect to the Host, then the main control chip will respond to the Host.
- The main control chip read the Axes and Buttons value.
- The main control chip sends the Axes and Buttons value to host.

Subsection 2:

RF module working procedures:

- Send “Device” main control chip Data to “Host”’s by modulate RF signal.
- Example: The Device’s Module sends the Axes and Buttons value to the Host’s Module.

Subsection 3:

The power supply circuit is mainly consist of one LDO converter AIC1734-33; 4.5V DC voltage from the battery can be convert to 3.3V DC; it can supply to RF module and Main control chip and circuit to work.