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## **Opreation Description**

Product Name: Wireless DMX Transceiver

Model Name: LC-512X

U1 is the main CPU, which receiving the data from RF module and decoding DMX512 signal or received the DMX512 signal converted into the RF output.

RF module will receive the data from antenna and send the received data to CPU for processing. This module communicate with CPU with SPI communication mode.

When turn on the power of the controller, the 16MHZ crystal oscillator opens inspries, U1 and the module start to work. Then the controller is at the searching status.

When power up, controller is operating in channel search state, when receiving a normal RF signal, is switched to the receiving state, the received RF signal is converted to a DMX512 output; when the controller receives DMX512 signal, the controller into the transmission mode, will receive DMX512 signal is converted to the RF output