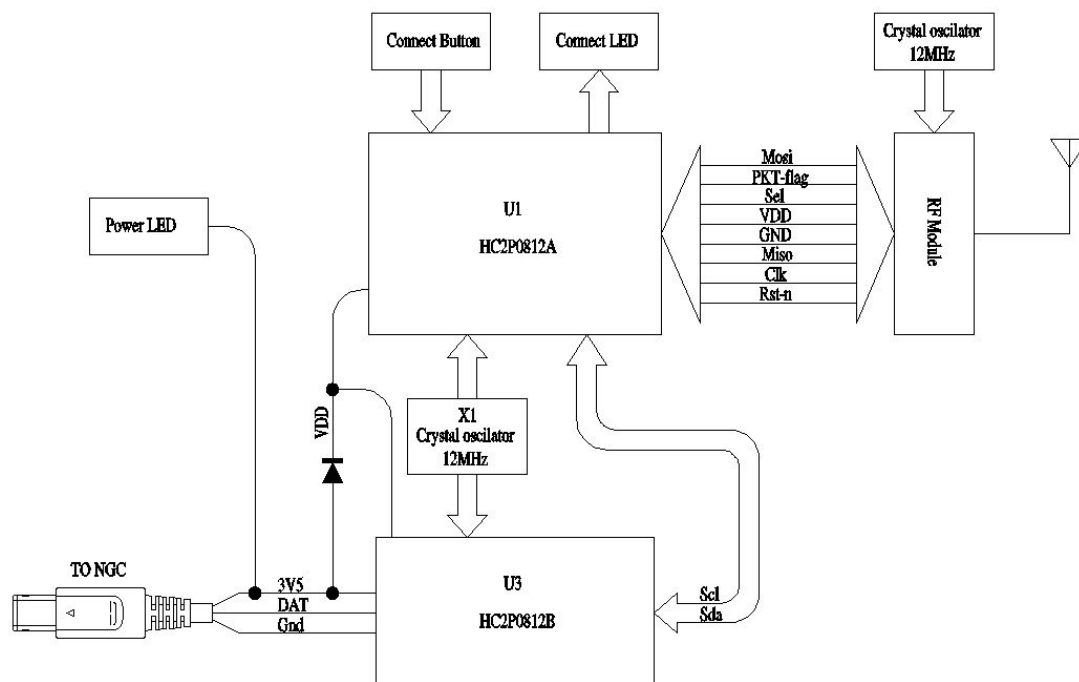


2.Receiver

2.1 Operation Principle

After NGC plug and NGC console were connected, NGC console will provide the working voltage for the entire electric circuit. And the 12MHZ crystal oscillator start working, and provided U1 and U3 the operating frequency. The RF module also starts to work. The LED will twinkle, indicated that the RF module is searching the receiver, (note: U1 is carries on the communication channel search through the RF module by the frequency-hopping way, and transmits the bind command.) When founding the receiver, U1 will judge whether to connect with it. If yes, the LED indicator will light up. And U1 will generate stochastic code, and this code will be stored in U1. Simultaneously the NGC console will judge whether the inserted equipment is a NGC equipment. if yes, it will go on working, and ask for the Axis value and the pressed key value. It will Wait for the module to receive data. When the RF module received the data, the data will be demodulated by the MCU, and being carried to the U1 will verify the data which from the RF module by its accuracy, and judging whether to send these data to U3. If correct, it will carry on processes and send the result to U3. U3 will convert these data into according to the information comply with NGC communication protocol, and send it to the NGC console.

2.2 Block Diagram :



2.3 Typical Product Characteristics:

Items	Description
Type of Modulation	FSK
Number of Channels	79
Frequency Band	2402 MHz ~ 2479 MHz
Antenna Type	PCB Antenna
Testing Duty Cycle	100%
Test Power Source	NGC 3V 5.
Temperature Range(Operating)	0 ~ 65 °C