working principle description

The XHS7-2001-WHT is a Smart Window / Door Sensor. It contains an RF module: CBU. Power with DC 2*1.5V AAA batteries.

CBU is a Wi-Fi+BT module which supports 2.4GHz only with 802.11b/g/n , BLE 1M mode. It has a simple MCU BK7231N with 3.3v DC power supply and once power on, it could connect the AP or station directly.

This module works with a 26MHz crystal, and has a 2MB flash, 5 PWM, 1ADC interface. Besides these, it can apply with 2.4GHz PCB antenna or external antenna.

The basic function description is as below:

Modulation Technique:	802.11b: DSSS (CCK, QPSK, BPSK) 802.11g/n (HT20, HT40): OFDM (64QAM, 16QAM, QPSK, BPSK) BLE: GFSK
Antenna Type:	PCB Antenna
Antenna Gain:	2.21dBi
Crystal:	26MHz
Frequency Range	BLE: 2402-2480MHz Wi-Fi: 2412-2462MHz