

DRV-WL-BLK3 ARE wireless Game Guitar Controller. It includes three colors: (red, blue, and black). It's working at FSR 2.400MHz to 2482MHz, base frequency is 12MHz for MCU control and RF module.

The Guitar produces any word when Power on, and occurs a random channel, then transmitted by RF module.

{RF transceiver format: preamble+SYNC word+Trailer+payload+crc(2bytes); random data affix the Payload byte. and transmit by 2ms/frame}

the Host receiver occurs the random data when power on. Configs the SYNC word and addresses data and receives the signal by air,

Both the Guitar and Host receiver can recognize the random signal and make feedback to each other. When RSSI are disturbed, they produce random data again until that the RSSI is not disturbed. Then use this channel

The guitar controller has two parts, guitar controller and adapter, when you use it, plug the adapter to PS2 or PS3 console first. The adapter's green LED blinks, prompting you to connect the guitar controller. Here, you must put the 4 AA batteries in the cell box, close the cell cover, and turn on the power switch, at the same time, the adapter's green LED stops blinking. The guitar is connected.

When you press any button from the guitar controller, the MCU processes the SPI communication format. It sends the data to the RF module (MRC801B), then the MRC801B modulates the key by 2.4GHz GFSK carrier-wave signal. And transmits by Module "F" type antenna.

The adapter receiver the GSF singnal by RF module and demodulation the key for SPI communication with MCU. MCU received the Button signal the judge the Plug, and recoder the PS2 protocol if Plug to PS2 console; ro recode the PS3 protocol if Plug to the PS3 console.

The guitar controller have low battery denote, if the betterry is lower 4.2V. the controller LED is blink.