2.4GHz RF PS2 Wireless Controller Host Working Principle

- It is a 2.4G RF product. It works at the frequency of ISM Band (2.4GHZ).
 There are up to 80 channels, and the frequency interval between each channel is 1M Hz.
- Evenly Randomized Frequency Hopping Sequence method is implemented in the RF technology.
- It works in "Master" Mode. We call it "Host."

The working procedures are:

- a) When power on, the Host will do the frequency hopping according to a certain sequence, and then send the connection command.
- b) If there is a Device response, the Host will judge whether it can be permitted to connect.
- c) If it can be permitted to connect, then send the connection command to build up the connection.
- d) The Host sends the request command to the Device to get the Axes and Buttons value.
- e) The Device sends the Axes and Buttons value to the Host.
- f) The Host will identify the data received and then do the data detection and data correction.
- g) The Host will save the data received if there is no error.
- h) The Host judges whether it is required to send Axes and Buttons value to PS2 console.
- i) If it is required, then send the saved data to PS2 console.
- j) The Host judges whether there is any Motor command and/or Motor value sent from PS2 console.
- k) If there is, then the Host will save the received Motor data.
- The Host send Motor commands to the Device, and send the Motor value to the Device.
- m) Repeat Step e) to Step 1)