

Circuit Principle description:

This Balance Board controller is used for Wii™ console. The Balance Board communicates with Wii™ console by wireless technology.

The frequency range of wireless transceiver is 2.402 GHZ to 2480MHZ, It work in Frequency-Hopping Spread Spectrum mode. Modulation type for MSK. The system clock is 12MHZ, Use a PCB antenna.

In the Balance Board, Main chip GH7610 receives all game control data and wireless communicates with Wii™ console by wireless module GH2705A. The system clock is 12 MHZ, a 4xAA power supply.

Four Weight Sensor receive weight signal and send to Signal Amplifier(SGM8922). Signal Amplifier enhance the signal and send them to MCU(GH7160). Then the MCU convert different Weight signal to game control signal and send them to wireless module(GH2705A) for wireless communicates with Wii™ console, also, the MCU send the signal to LCD display for weight, timer and other display. In same time the Balance Board receives game signal from Wii™ console, such as game LED indicator and wireless connect signal.