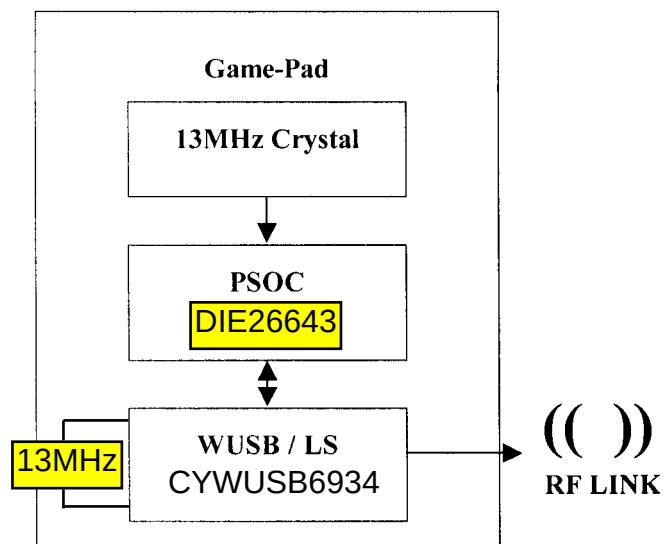


System Block diagram





CYPRESS

WirelessUSB™ LS 2.4-GHz DSSS Radio SoC

CYWUSB6932
CYWUSB6934

1.0 Features

- 2.4-GHz radio transceiver
- Operates in the unlicensed Industrial, Scientific, and Medical (ISM) band (2.4 GHz–2.483 GHz)
- -90-dBm receive sensitivity
- Up to 0 dBm output power
- Range of up to 10 meters or more
- Data throughput of up to 62.5 kbits/sec
- Highly integrated low cost, minimal number of external components required
- Dual DSSS reconfigurable baseband correlators
- SPI microcontroller interface (up to 2-MHz data rate)
- 13-MHz $\pm$ 50-ppm input clock operation
- Low standby current < 1 μ A
- Integrated 30-bit Manufacturing ID
- Operating voltage from 2.7V to 3.6V
- Operating temperature from 0° to 70°C
- Offered in a small footprint 48 Quad Flat Pack No Leads (QFN)

2.0 Functional Description

The CYWUSB6932/CYWUSB6934 Integrated Circuits (ICs) are highly integrated 2.4-GHz Direct Sequence Spread Spectrum (DSSS) Radio System-on-Chip (SoC) ICs. From the Serial Peripheral Interface (SPI) to the antenna, these ICs are single-chip 2.4-GHz DSSS Gaussian Frequency Shift Keying (GFSK) baseband modems that connect directly to a microcontroller via simple serial interface.

The CYWUSB6932 transmit-only IC and the CYWUSB6934 transceiver IC are available in a small footprint 48-pin QFN package.

3.0 Applications

- PC Human Interface Devices (HIDs)
 - Mice
 - Keyboards
 - Joysticks
- Peripheral Gaming Devices
 - Game Controllers
 - Console Keyboards
- General
 - Presenter Tools
 - Remote Controls
 - Consumer Electronics
 - Barcode Scanners
 - POS Peripherals
 - Toys

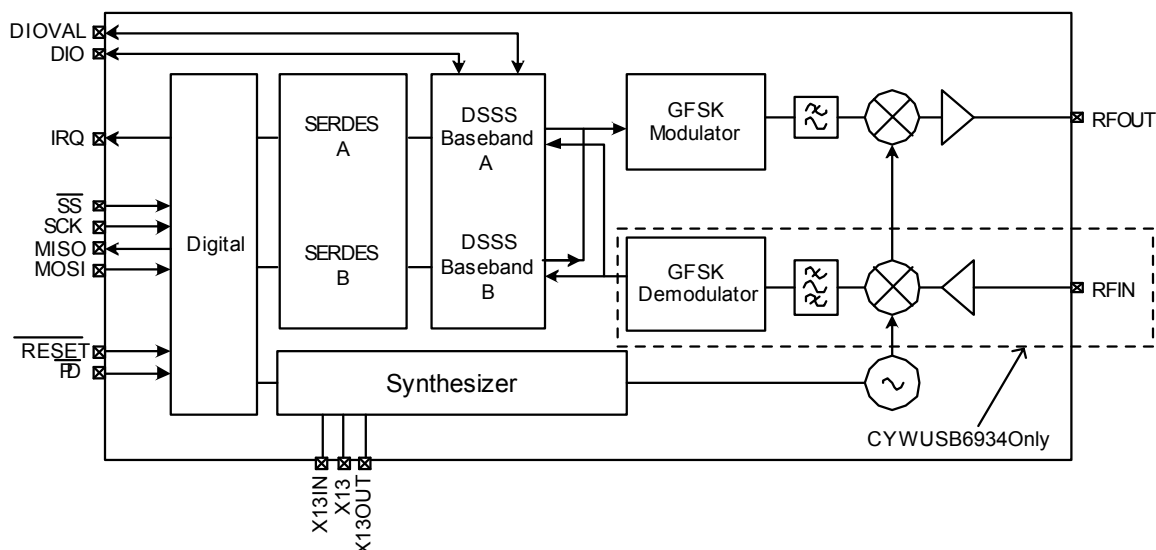


Figure 3-1. CYWUSB6932/CYWUSB6934 Simplified Block Diagram