

## QPSK Modulator and Demodulator Using FPGA for SDR

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### ABSTRACT

A software-defined radio (SDR) allows for digital communication systems to simply accept more complicated coding and modulation technologies, which is enormously vital in meeting the ever-increasing demands of the wireless communication industry. An SDR has been constructed, using the Simulink tool, and implemented on the SPARTEN-3E Field Programmable Gate Array (FPGA) development kit. The modulation scheme used in the system is Quadrature Phase-Shift Keying (QPSK). In the first step to realize the whole modulation and demodulation schemes using MATLAB Simulink. The format of a VHDL program is built around the concept of BLOCKS which are the basic building units of a VHDL design. The results showed that the proposed method can greatly improve the developing efficiency, shorten developing period and reduce costs.

**Keywords:** - Demodulator, FPGA, Modulator, QPSK, SDR VHDL.

### I. INTRODUCTION

The objective of this paper is to design a QPSK modem using FPGA for SDR (Software Defined Radio). In this paper the modulator and demodulator is implemented on single FPGA kit. In which mainly concentrates on QPSK modulation techniques. In QPSK, two successive bits sequence are grouped together, this reduces the bit rate of a signaling rate ( $f_s$ ) and reduces the bandwidth of the channel.

Quadrature Phase Shift Keying (QPSK) modulation ordinary used modem chips or ASICs, to implement, but those chips usually do not have sufficient programming skill and its functionality cannot easily be changed or improved in the product development process. So those chips are not suitable the situation where the parameters changed frequently. The communication system based on FPGA is easy to implement the pipeline architecture and simple to upgrade. This is a very practical approach to implement the QPSK modulator and demodulator [1].

The FPGA implementation of nM QPSK modulator and demodulator is presented complete modulator and demodulator units will be modeled using VHDL and functionality will be verified using modelsim simulation tools. The code will be synthesized onto Xilinx FPGA kit. The modulator consists of various communication modules like phase calculator, I-Q mapper, frequency synthesizer, clock generator and COS-LUT. The demodulator consists of modules COS-LUT, Negative SIN-LUT, digital multiplier integrator and dump circuit and baseband differential detector. These digital modules

will be implemented as different modules and used as components in top level entities [2].

### II. THE MODULATOR AND DEMODULATOR ARCHITECTURE

Principle of QPSK modulator— in quadrature phase shift keying (QPSK), two successive bits in the data sequence are grouped together this reduces the bit rate of a signaling rate ( $f_s$ ) and hence reduces the bandwidth of the channel. QPSK Modulator—the modulator converts the input bit stream into an electrical waveforms suitable for transmission over the communication channel. Modulator is used to minimize the effect of channel noise and matching the frequency spread spectrum of transmitted signal.

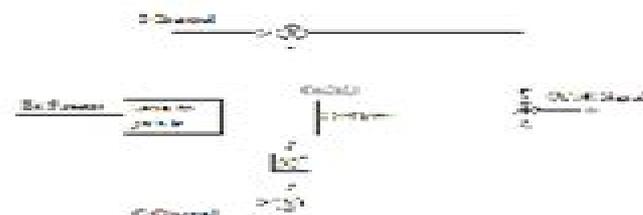


Fig (1): Block diagram of QPSK Modulator

The above fig (1) shows a block diagram of typical QPSK transmitter. The unipolar binary message stream has bit rate  $R_b$  and is first converted into a bipolar non-return-to-zero (NRZ) sequence using a unipolar to bipolar converter. The bit stream

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## **Table of Contents Qpsk Modulator And Demodulator Using Fpga For Sdr**

1. Understanding the eBook Qpsk Modulator And Demodulator Using Fpga For Sdr
  - The Rise of Digital Reading Qpsk Modulator And Demodulator Using Fpga For Sdr
  - Advantages of eBooks Over Traditional Books
2. Identifying Qpsk Modulator And Demodulator Using Fpga For Sdr
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Qpsk Modulator And Demodulator Using Fpga For Sdr
  - User-Friendly Interface
4. Exploring eBook Recommendations from Qpsk Modulator And Demodulator Using Fpga For Sdr
  - Personalized Recommendations
  - Qpsk Modulator And Demodulator Using Fpga For Sdr User Reviews and Ratings
  - Qpsk Modulator And Demodulator Using Fpga For Sdr and Bestseller Lists
5. Accessing Qpsk Modulator And Demodulator Using Fpga For Sdr Free and Paid eBooks
  - Qpsk Modulator And Demodulator Using Fpga For Sdr Public Domain eBooks
  - Qpsk Modulator And Demodulator Using Fpga For Sdr eBook Subscription Services
  - Qpsk Modulator And Demodulator Using Fpga For Sdr Budget-Friendly Options
6. Navigating Qpsk Modulator And Demodulator Using Fpga For Sdr eBook Formats

- ePub, PDF, MOBI, and More
  - Qpsk Modulator And Demodulator Using Fpga For Sdr Compatibility with Devices
  - Qpsk Modulator And Demodulator Using Fpga For Sdr Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Qpsk Modulator And Demodulator Using Fpga For Sdr
    - Highlighting and Note-Taking Qpsk Modulator And Demodulator Using Fpga For Sdr
    - Interactive Elements Qpsk Modulator And Demodulator Using Fpga For Sdr
  8. Staying Engaged with Qpsk Modulator And Demodulator Using Fpga For Sdr
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Qpsk Modulator And Demodulator Using Fpga For Sdr
  9. Balancing eBooks and Physical Books Qpsk Modulator And Demodulator Using Fpga For Sdr
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Qpsk Modulator And Demodulator Using Fpga For Sdr
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Qpsk Modulator And Demodulator Using Fpga For Sdr
    - Setting Reading Goals Qpsk Modulator And Demodulator Using Fpga For Sdr
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Qpsk Modulator And Demodulator Using Fpga For Sdr
    - Fact-Checking eBook Content of Qpsk Modulator And Demodulator Using Fpga For Sdr
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
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