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Design and implementation of linear precoding LTE downlink based on fpga Abstract: The problem that often occur in multi-antenna wireless communication is how to maximize the throughput. Precoding is a generalization of beamforming to support multi-layer transmission in multi-antenna wireless communications.

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paper presents a Field Programmable Gate Array (FPGA) design and implementation of the transmitter of the LTE downlink physical layer according to releases 8 and 9 on Virtex 6 XC6VLX240T FPGA kit using Xilinx® ISE® Design Suite version 12.1. General Terms SDR, LTE, 4G, 3GPP, OFDM, Transmitter , 2G ,3G, LTE

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FPGA implementation of 3GPP-LTE physical downlink control channel using diversity techniques. WSEAS Transactions on Signal Processing, 9 (2), 84-97.

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The LTE application framework implements parts of a 3GPP-LTE release 10 compliant downlink and uplink physical layer transmitter and receiver. To keep the complexity of this application framework at a reasonably low level, only a subset of the physical layer features defined for 3GPP-LTE release 10 compliant devices is implemented.

## **LabVIEW Communications LTE Application Framework 1.1 White ...**

An LTE downlink signal with a bandwidth of 1.4 MHz, modulated onto a 32 MHz IF carrier. The example measures signal quality at the output of the floating-point and fixed-point DDCs, and compares the two. Finally, FPGA implementation results are presented. ... HDL Code Generation and FPGA Implementation.

## **HDL Implementation of a Digital Down-Converter for LTE ...**

LTE is accepted worldwide as the Long Term Evolution Perspective for today's 3G and 4G networks. The downlink physical channels of LTE include 3 data channels (PDSCH, PMCH and PBCH) and 3

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control channels (PDCCH, PCFICH and PHICH). Control channels are inevitable for the transmission of both downlink and uplink data channels. Control information for one or multiple user equipments are ...

### **Implementation of physical downlink control channel (PDCCH ...**

The LTE application framework implements parts of a 3GPP-LTE release 10 compliant downlink and uplink physical layer transmitter and receiver. To keep the complexity of this application framework at a reasonably low level, only a subset of the physical layer features defined for 3GPP-LTE release 10 compliant devices is implemented.

### **LabVIEW Communications LTE Application Framework 2.0 and 2 ...**

The LTE-A technology increases the peak data rates to 1 Gbit/s in the downlink and to 500 Mbit/s in the uplink. LTE-A has several new features such as MIMO extensions (up to  $4 \times 4$  for UL and up to  $8 \times 8$  for DL), ... (GM), and by the fixed-point FPGA implementation of the proposed architecture. ...

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