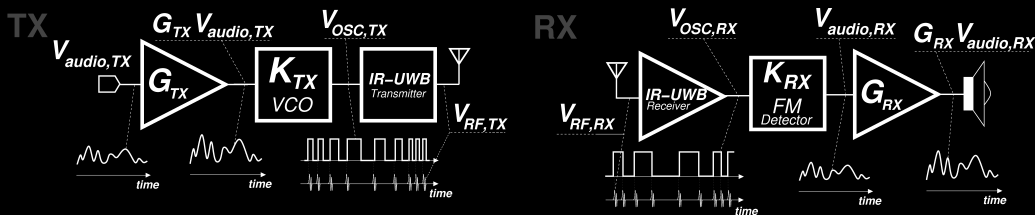


RADIO Impulse RADIO

4GHz
PRF Modulation

Live Demonstration: An Ultra-Low Power PFM IR-UWB System for Short-Range Audio Streaming

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Advantages: 1) low radiated pulses, 2) low complexity, 3) no PLL needed, 4) low latency.
Performance: SNR = 66dB, THD < 1%, IC power consumption 4mW (RX) 30μW (TX).
Modulation: analog transmission based on pulse-to-pulse delay (PFM).
Radio System: integrated RX/TX plus commercial components (RX and TX module).
Average pulse rate: 666k pulse-per-second (peer-to-peer).
Operating range: up to 2.5m with chip antennas.

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DI TECNOLOGIA

