

ISSCC 2011

- 1 A 0.46mm² 4-dB NF Unified Receiver Front-End for Full-Band Mobile TV in 65nm CMOS
- 2 A 0.024mm² 8-bit 400 MS/s SAR ADC with 2-bit per Cycle and Resistive DAC in 65nm CMOS

ISSCC 2012

3 A 0.016mm² 144µW Three-Stage Amplifier Capable of Driving 1-to-15nF Capacitive Load with >0.95MHz GBW

ISSCC 2013

4 A 1.7mW 0.22mm² 2.4GHz ZigBee RX Exploiting a Current-Reuse Blixer+Hybrid Filter Topology in 65nm CMOS

ISSCC 2014

- 5 A 0.0013mm² 3.6μW Nested-Current-Mirror Single-Stage Amplifier Driving 0.15-to-15nF Capacitive Loads with >62° Phase Margin
- 6 An RF-to-BB-Current-Reuse Wideband Receiver with Parallel N-Path Active/Passive Mixers and a Single-MOS Pole-Zero LPF
- 7 A 0.5V 1.15mW 0.2mm² Sub-GHz ZigBee Receiver Supporting 433/860/915/960MHz ISM Bands with Zero External Components











ISSCC 2015

- 8 A 5.5mW 6b 5GS/s 4×-Interleaved 3b/cycle SAR ADC in 65nm CMOS
- A 2-/3-Phase Fully Integrated Switched-Capacitor DC-DC Converter in Bulk CMOS for Energy-Efficient Digital Circuits with 14% Efficiency Improvement
- (10) A 123-Phase DC-DC Converter-Ring with Fast-DVS for Microprocessors
- (1) A 0.028mm² 11mW Single-Mixing Blocker-Tolerant Receiver with Double-RF N-Path Filtering, S₁₁ Centering, +13dBm OB-IIP3 and 1.5-to-2.9dB NF

ISSCC 2016

- 12 A 0.038mm² SAW-less Multi-Band Transceiver Using an N-Path SC Gain Loop
- A 0.003mm² 1.7-to-3.5GHz Dual-Mode Time-Interleaved Ring-VCO Achieving 90-to-150kHz 1/f³ Phase Noise Corner
- 4 A Handheld 50pM-Sensitivity Micro-NMR CMOS Platform with B-Field Stabilization for Multi-Type Biological/Chemical Assays

ISSCC: IEEE International Solid-State Circuits Conference



