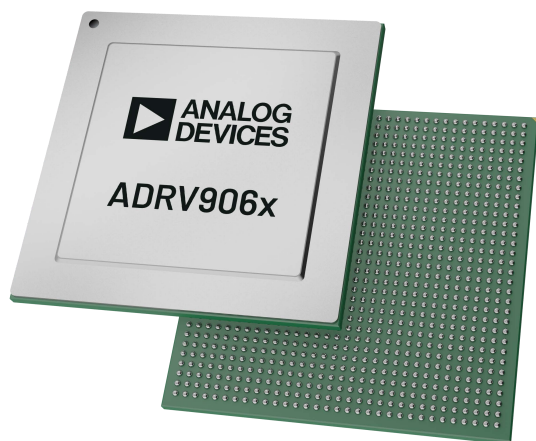


Simplify Design and Accelerate Time to Market



Introducing ADRV906x: The Most Integrated SDR Platform for 4G/5G Networks

This software-defined SoC consolidates RF and digital processing, delivering O-RAN-compliant 7.2x Low PHY within ADI's most integrated, intelligent, and secure radio platform.



Industry-Leading Technical Highlights

One Platform, Complete Portfolio: Configure small cells to macros on a single board with bandwidths from 20 MHz to 400 MHz. Supports all LTE, NR FR1 and NB-IoT bands in TDD, FDD, and mixed-mode operation. Adaptable anywhere from 450M to 7.125G (software defined).

Performance & Efficiency: Gen-6 Machine Learning DPD supports PAs up to 80 W with 600 MHz bandwidth. Neural engine continuously optimizes PA performance for maximum efficiency.

Security & Reliability: Embedded MACSec, secure boot, and advanced security architecture protect against network threats.

Risk Reduction: Interoperability-tested, O-RAN stack and reference design reduces design errors and accelerates RU bring-up.

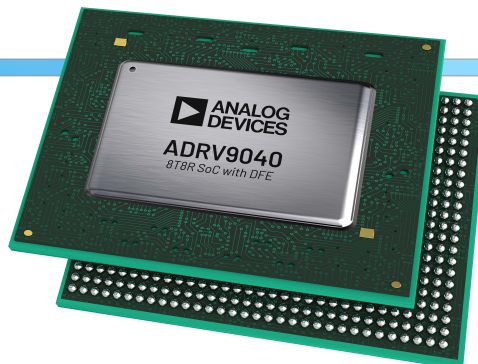
Explore Our Radioverse Family of Leading Transceivers



- 4T4R20R, 75MHz-6GHz, 200MHz BW, 2 x 2T2R Band combinations
- Generation 4 DPD + CFR

Applications:

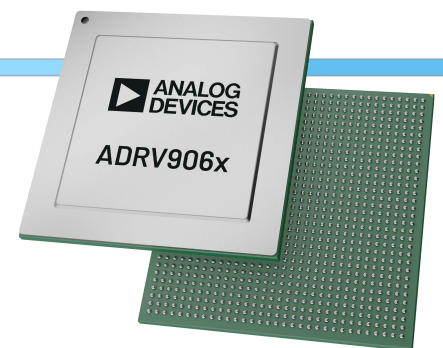
- Medium power FDD / TDD Macro radio's, requiring an external FPGA
- Medium capacity Small Cell radio's



- 8T8R20R, 600MHz-7.125GHz, 400MHz BW, N x 2T2R/4T4R/8T8R Band combinations
- Generation 5 DPD + CFR, CDUC + CDDC

Applications:

- Higher power FDD / TDD Macro radio's, requiring an external FPGA
- Higher capacity, high channel count MIMO and Small Cell radio's



- 4T4R10R/8T8R20R, 450MHz-7.125GHz, 400MHz BW, N x 2T2R/4T4R/8T8R Band combinations
- Generation 6 DPD + CFR, CDUC + CDDC, LowPHY

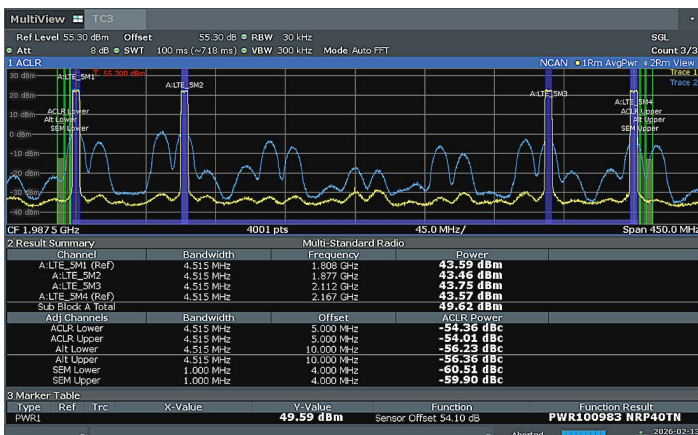
Applications:

- O-RAN Macro Radio's
- Energy Optimized Macro Radio's
- O-RAN Small Cell Radio's

ADRV906x Gen6 DPD

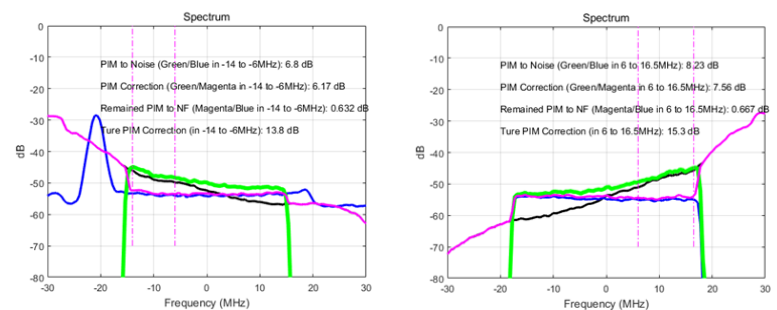
B1+B3 - 4x5MHz in 365MHz LTE, 8 dB PAR

Performance: Pout = 49.59 dBm, PA Drain Eff = 55.5 %, Lineup Eff = 51.5 %, DPD results (ACLR): -54.0 dBc



ADRV906x PIMc Performance

***Samana Supports Interband and Intraband PIMc and PIMd**



	PIM to Noise Power	PIM Correction	Remaining PIM Power	True PIM Correction (Without Noise)
B28B	8.58	7.79	0.791	14.9
B8	8.23	7.56	0.667	15.3