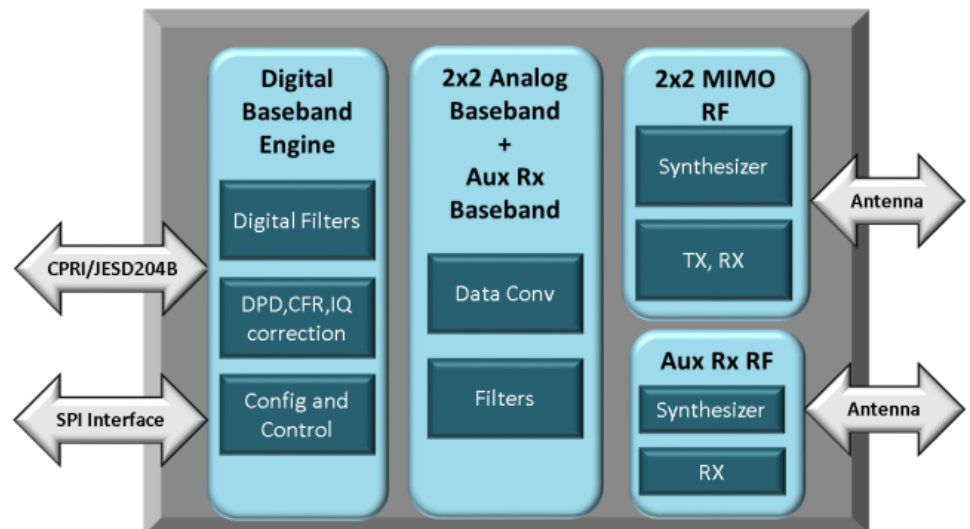


Features:

- Supports 5G-NR, LTE, 3G, 2G, and Wi-Fi
- Dual RF Transceiver for MIMO on single chip
- 350 Mhz - 6GHz
- TDD and full Duplex FDD support
- Integrated on chip ADC and DAC
- Digital communication with SERDES/CPRI
- Up to 100MHz RF bandwidth
- Transmit power of 14dBm
- Receive noise figure of 2.2dB
- Receiver IIP3 of 13dBm for saw less operation
- RF PLL with up to 0.6Hz step control
- Simple SPI serial port interface for configuration and control of all blocks
- On chip support for advanced algorithms like DPD,CFR and Quadrature correction
- Simple low power 1.2V & 2.5 V supplies

Signalchip's SCRF4502 RF Transceiver Chip integrates all the necessary components for 5G-NR/4G/3G/2G and Wi-Fi systems: high speed ADCs/DACs, self-tuned wide bandwidth baseband filters and programmable gain amplifiers. The SAW-less RF transmitter chip integrates high linearity low noise mixer, buffer and a power amplifier. The power amplifier can be configured to drive an antenna directly for short range applications (thus reducing the bill of materials) or, as a driver for long range applications.

The RF receiver chip integrates high linearity LNA, mixer and a DC offset correction loop. The integrated synthesizers create high fidelity carrier signals to meet the stringent requirements of a base station.



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Applications:

- Broadband wireless systems
- 5G-NR, LTE, GSM, CDMA2000, WCDMA, HSPA and WiFi
- Wi-Fi in whitespace frequencies
- Software defined radio (SDR)