COMBINED IQ-POLAR RADIO FREQUENCY DIGITAL-TO-ANALOG-CONVERTER (RFDAC) SYSTEMS AND METHODS

ABSTRACT

A combined radio frequency (RF) digital-to-analog converter (DAC) may include an in-phase and quadrature- (IQ-) based DAC to generate a phase component of an output RF signal and a polar-based DAC to generate an amplitude component of the RF signal. Additionally, modulation circuitry may combine the amplitude component and the phase component to generate the output RF signal.

Figure 1