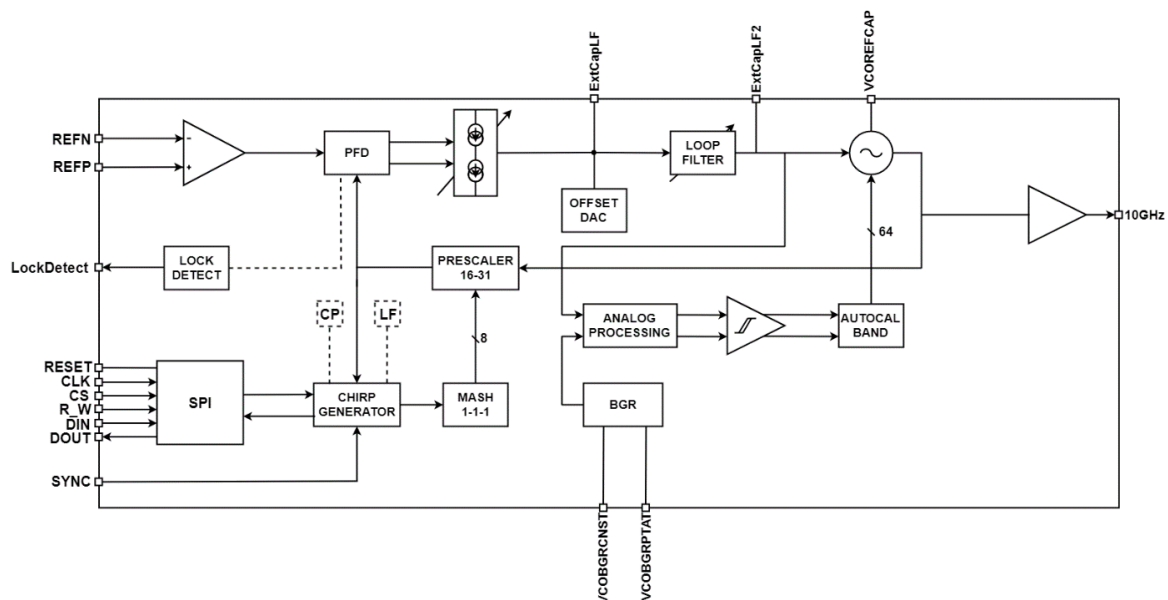


## 1. Features

## 2. Applications

### Simplified Schematic



The WEA910S22G is a PLL-based high performance frequency synthesizer implemented in 22FDX FD-SOI process with integrated multifunction chirp frequency generator. It generates a 10 GHz fundamental frequency and various frequency ramps with integrated VCO utilizing a 64band autocalibration system. The synthesizer is powered by a 1.5 V and 0.8 V supplies. The WEA910S22G occupies a silicon area of 3150  $\mu\text{m} \times 700 \mu\text{m}$  (2.2  $\text{mm}^2$ ). It exhibits high performance, high integration and flexibility for automotive RADAR applications.

#### 4. Availability

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Silicon verified in GF 22FDX - Metal Option 11 & 19

#### 5. Deliverables

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GDSII, Database, Measurement results, VerilogA/Matlab Functional models

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### About weasic





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**weasic Microelectronics S.A.** designs, develops, and markets high quality complex analog and RF IP for wireless communications and wireless sensors applications, helping semiconductor and system companies to shrink the product design cycle. WEASIC, silicon verified IP is designed in the state of the art CMOS, CMOS-SOI and SiGe processes and can be easily ported and customized to serve the development of 5G and Backhaul communications transceivers, mmWave front-end modules, and RADAR sensors.

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### Contact us

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