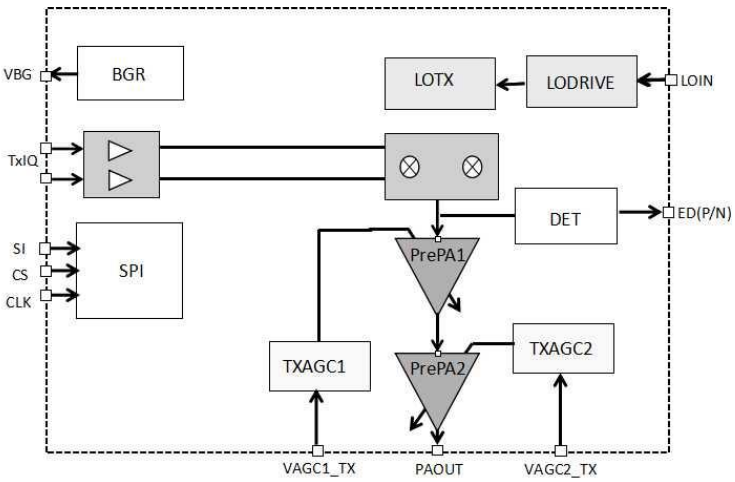
# MICROWAVE TRANSMITTER FRONT END

## Overview

The WEA1015TX is a complete broadband wireless microwave transceiver front-end operating in the frequency band spanning from 10 GHz to 15 GHz. Implemented in a GF Silicon Germanium 8XP process it integrates an up-converter mixer, a two stage PA driver with Gain Control, an IQ LO driver an envelope detector and a bandgap reference.




## Features

- Signal Envelope Detector
- Linear-in-dB Continuous Gain Control
- Broadband Baseband Bandwidth
- Transmit Power Control Function
- Programmable Bias

## Availability

- Silicon proven in GF 8XP
- Easily ported to higher frequencies

## Deliverables

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