

Radar Module – Antenna Report

1 Introduction

The Radar module contains a Single-Chip IWR6843AOP Antennas-On-Package (AOP). IWR6843AOP antenna is designed to be operated in 60GHz to 64GHz frequency range with an FMCW transceiver.

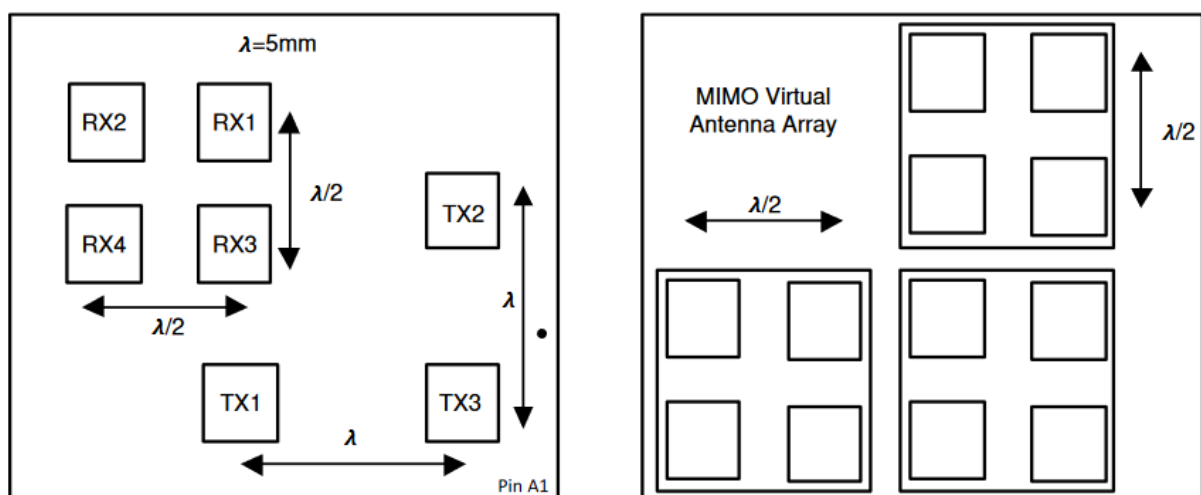
2 Antenna Description

The Radar chip includes **four receivers** and **three transmitters**.

It operates at 4-GHz bandwidth from 60 to 64 GHz, with a maximum output power of 20dBm and a maximum antenna gain of about **0 dBi** around 60 GHz.

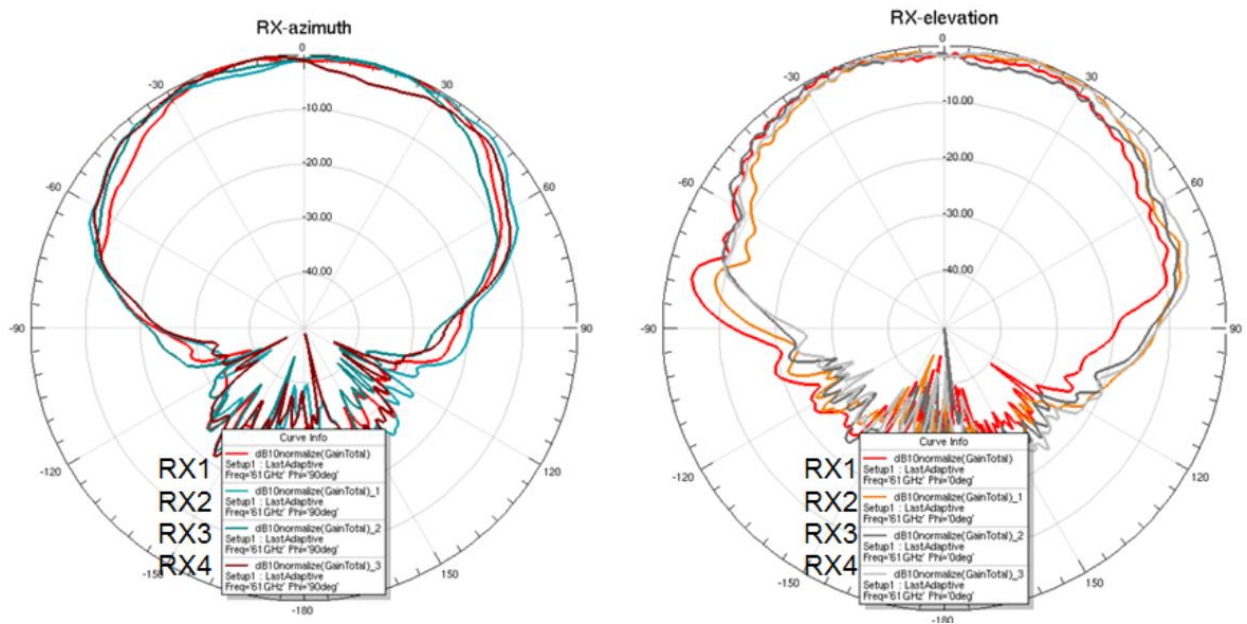
3 Antenna Positions

The following figure shows the placement and relative spacing of the antennas into the Radar chip.



4 Antenna radiation patterns

4.1 Antenna radiation patterns for Receiver



4.2 Antenna radiation patterns for Transmitter

