

# Radarr Module – Antenna Report

## 1 Introduction

The Radarr 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.

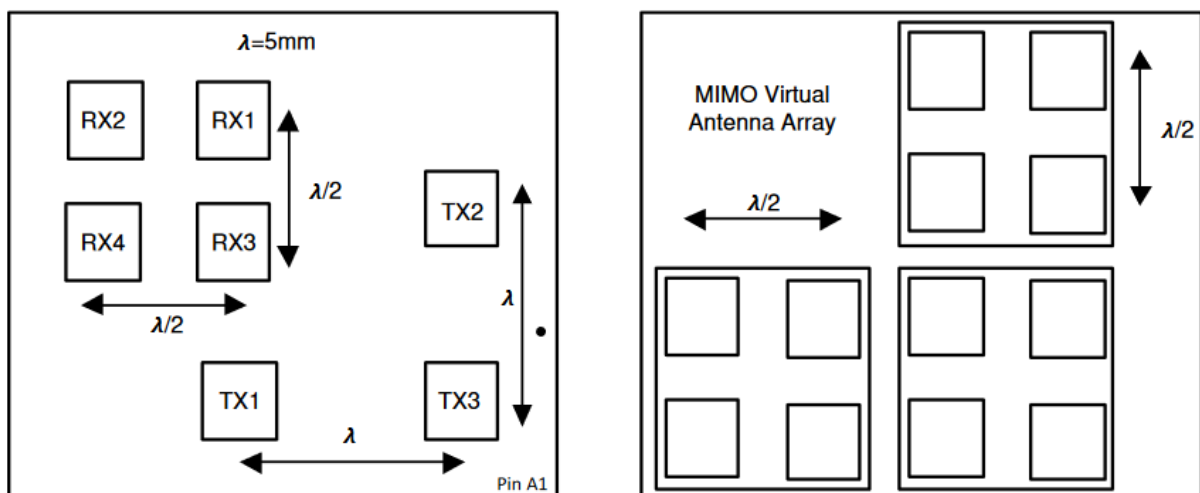
## 2 Antenna Description

The Radarr 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.

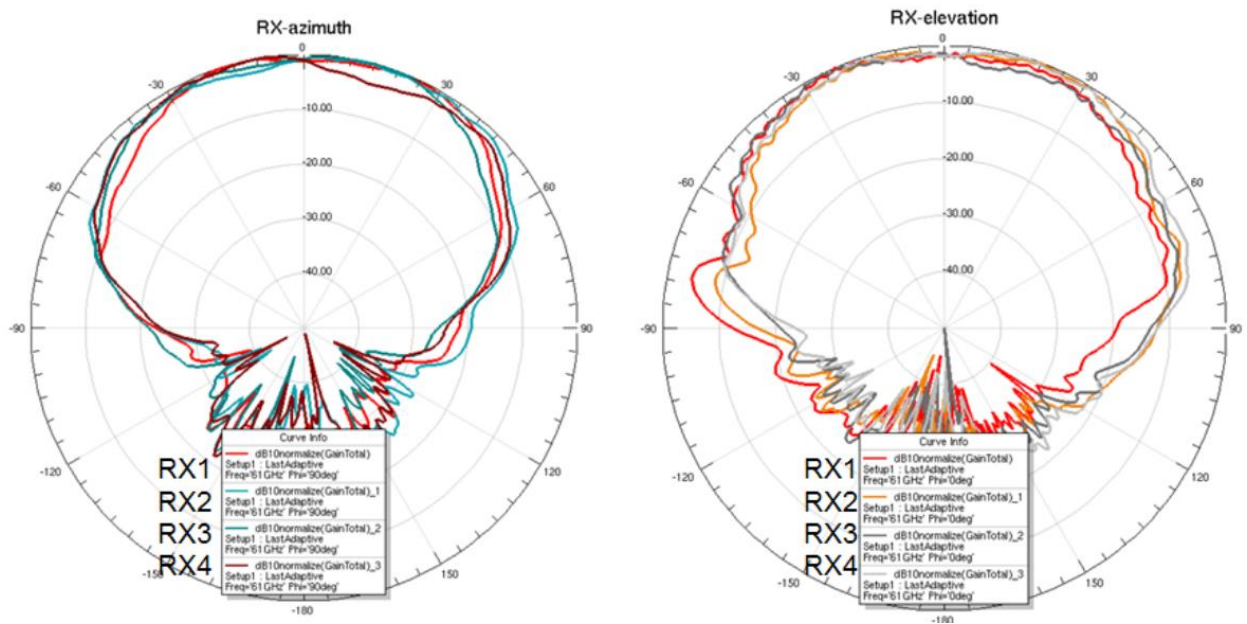
## 3 Antenna Positions

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



## 4 Antenna radiation patterns

### 4.1 Antenna radiation patterns for Receiver



### 4.2 Antenna radiation patterns for Transmitter

