



# IWR6843AOP

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## Introduction

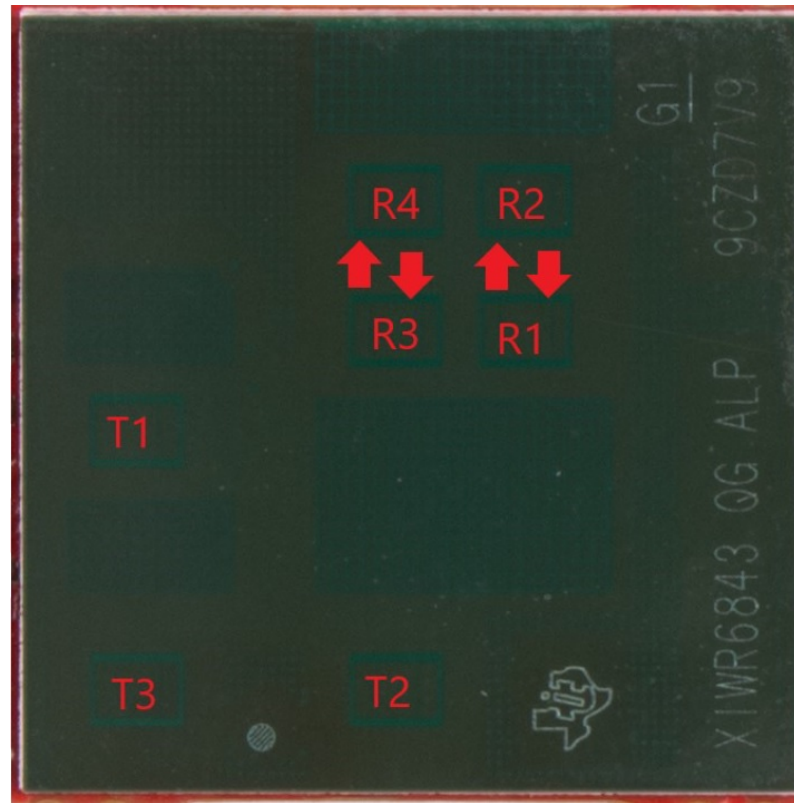
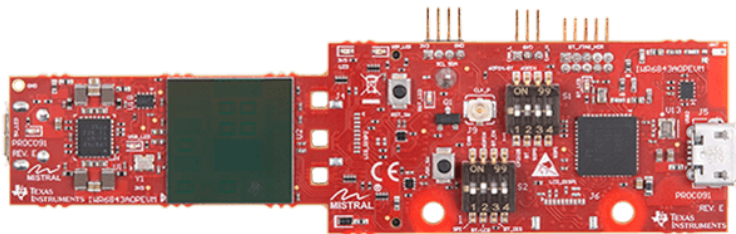
IWR6843AOP EVM antenna is designed to be operated in 60GHz to 64GHz frequency range. The IWR6843 antenna-on-package (AoP) evaluation module (EVM) is an easy-to-use mmWave sensor EVM with integrated, short-range, wide field-of-view (FoV) AoP technology.

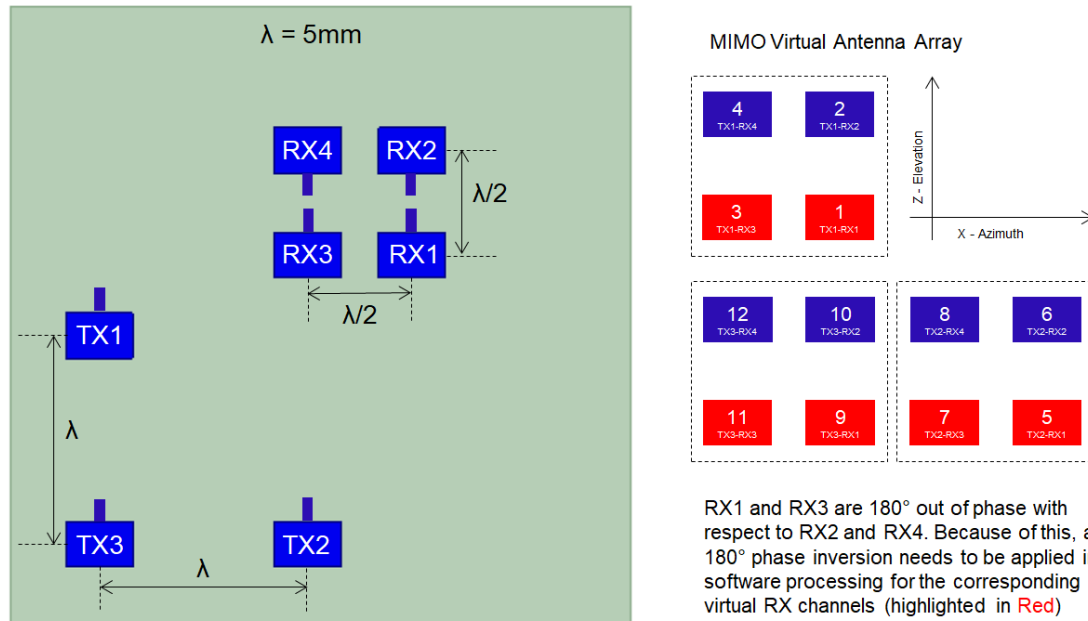


Design	Azimuth FOV (deg)*	Elevation FOV (deg)*	Azimuth Angular Resolution(deg)	Elevation Angular Resolution (deg)	Max Distance for Person (m) **
IWR6843AoP (60GHz)	+/-60	+/-60	29	29	60

A comparison table of all antenna configurations can be on the [Antennas overview page](#).

## IWR6843AOP EVM Antenna Picture & Dimensions





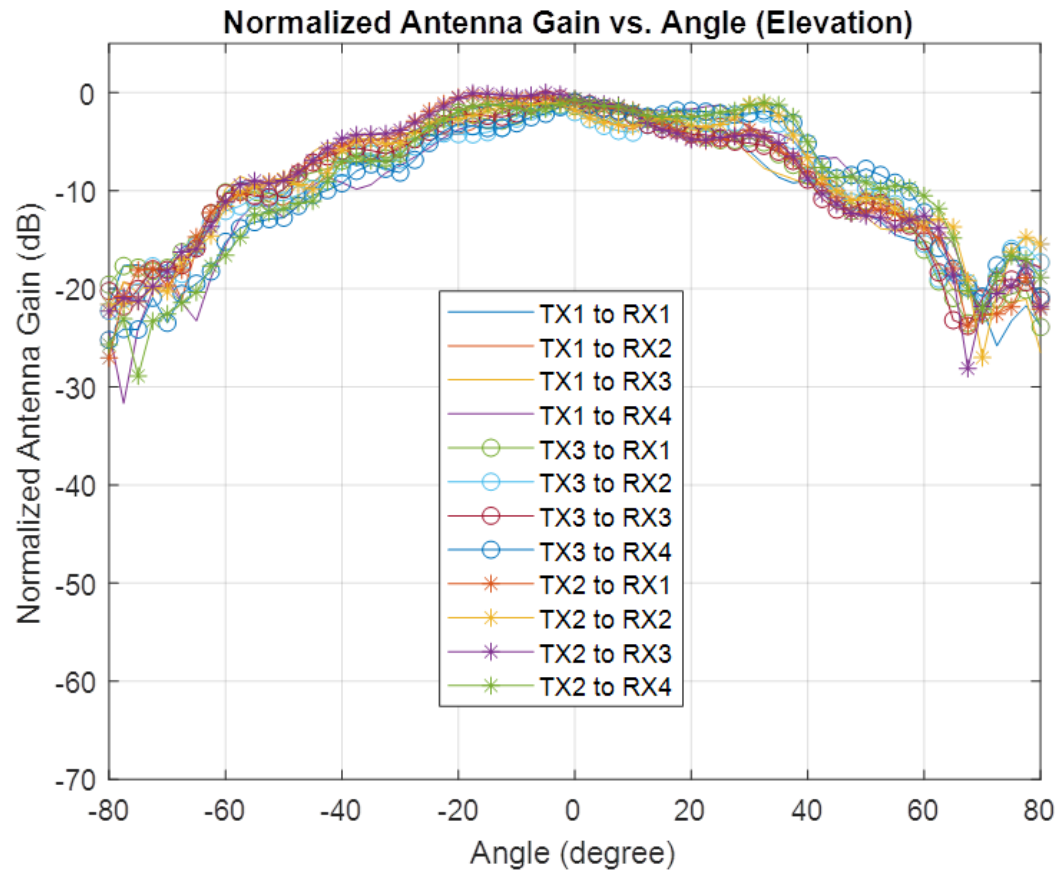
The IWR6843AOPEVM includes four receivers and three transmitters. It operates at 4-GHz bandwidth from 60 to 64 GHz, with a maximum output power of 12 dBm and a maximum antenna gain of about 5.2 dBi around 60 GHz.

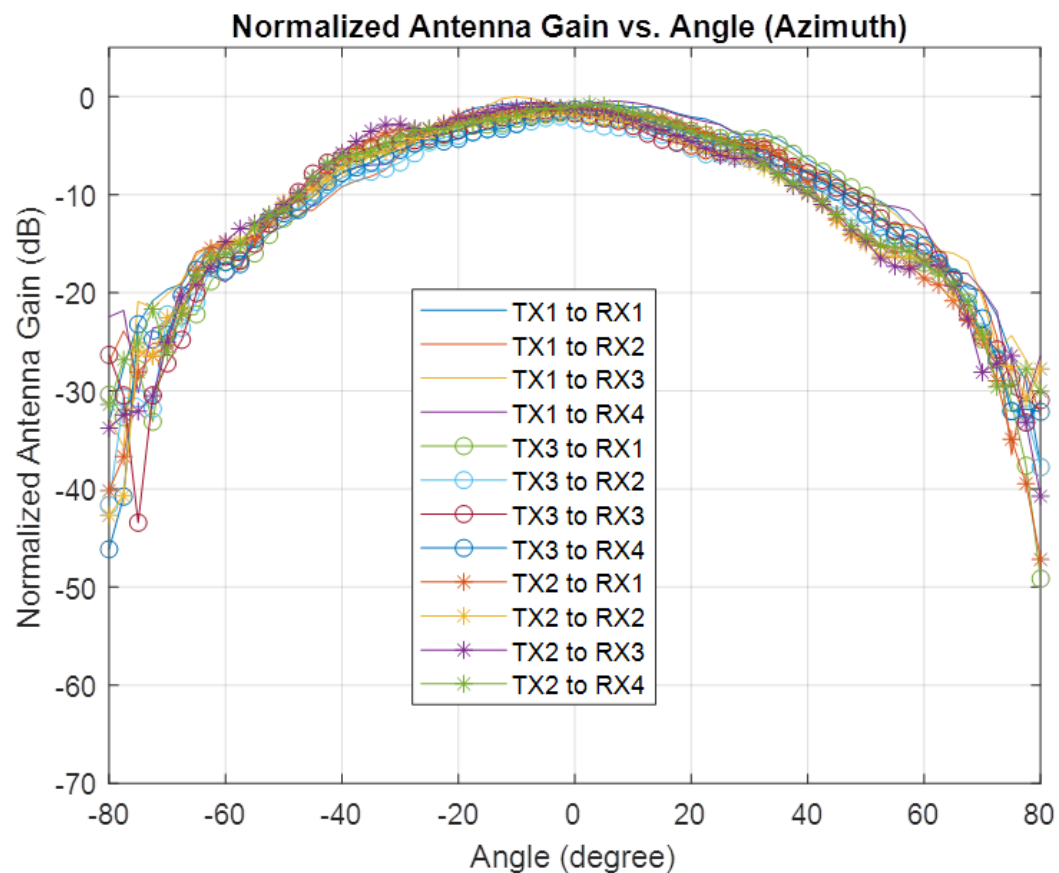
For more details about this EVM, please refer to below link:

<http://www.ti.com/tool/IWR6843AOPEVM>

## Measured Radiation Patterns

Measured radiation patterns of IWR6843AOP Antenna for Elevation and Azimuth can be seen below.





In the above pictures X axis represents the angle (in degrees) and Y axis represents the relative gain (in dB). This radiation pattern is measured inside a Anechoic chamber with a corner reflector. The FMCW chirp used for this measurement has a start frequency of 60GHz and a RF bandwidth of 2GHz.

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