



## KY-LOC 1D.02.01 Antenna Description





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## Reference Documents

Signum	Doc Number	Version	Title
RD1			
RD2			
RD3			
RD4			
RD5			

\*Appropriate version to be obtained from supplier



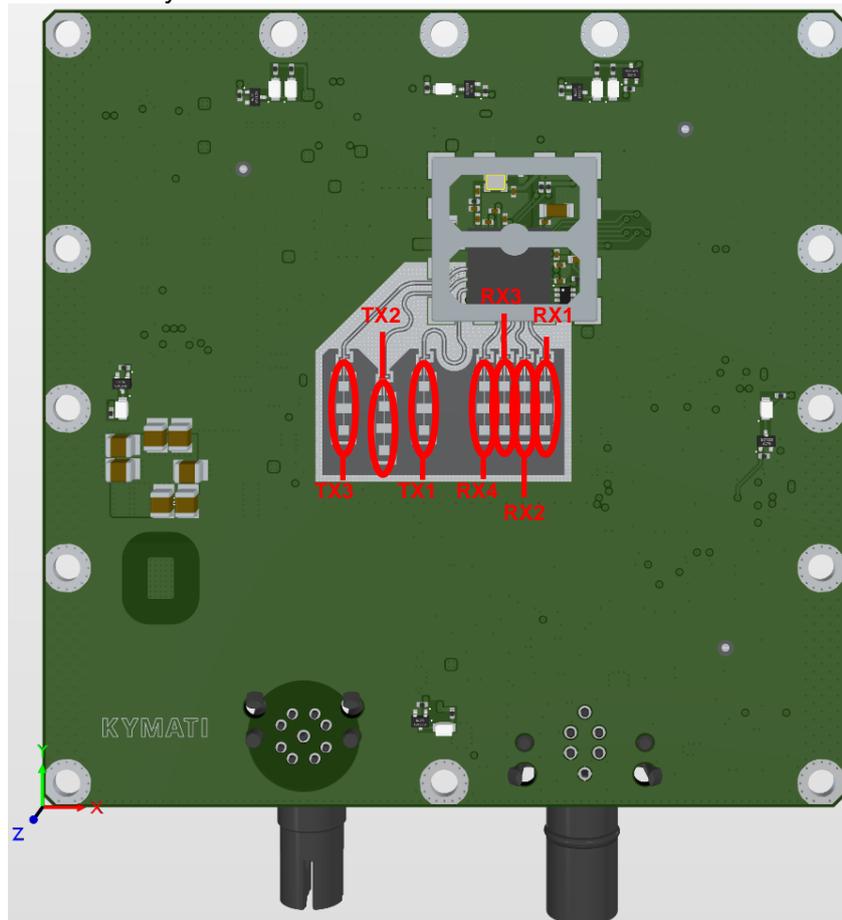
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## 1 General Information

### 1.1 Antenna

The device has 3 TX and 4 RX patch antennas as shown in Figure 1. As only TX3 and RX 1 is directly under a lens only these two antennae are used.



**Figure 1: Patch Antennae**

The following figures shows the antenna pattern for TX3 antenna with the lens on top.

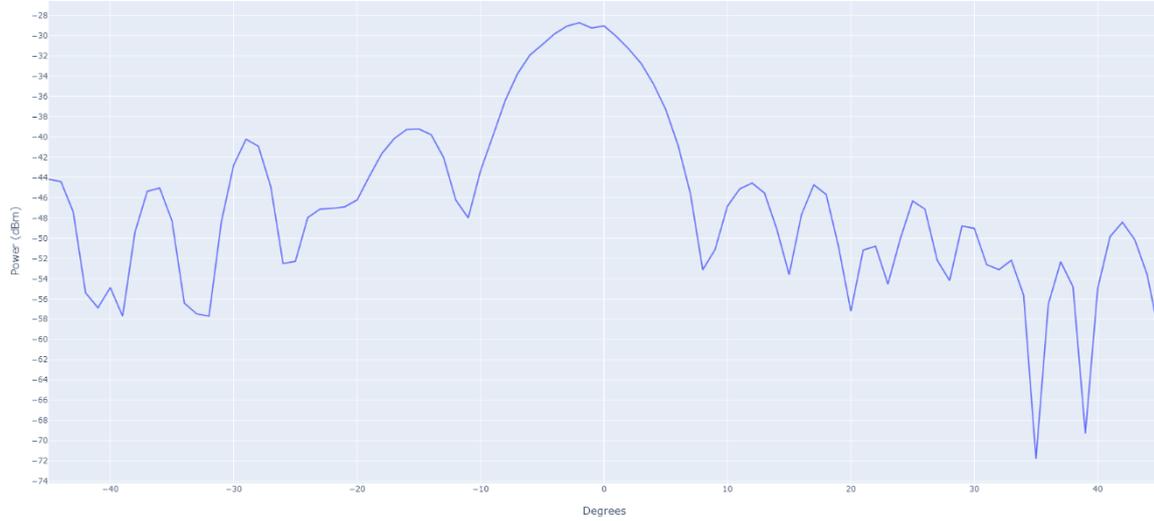


Figure 2: TX3 Antenna diagram - Azimuth

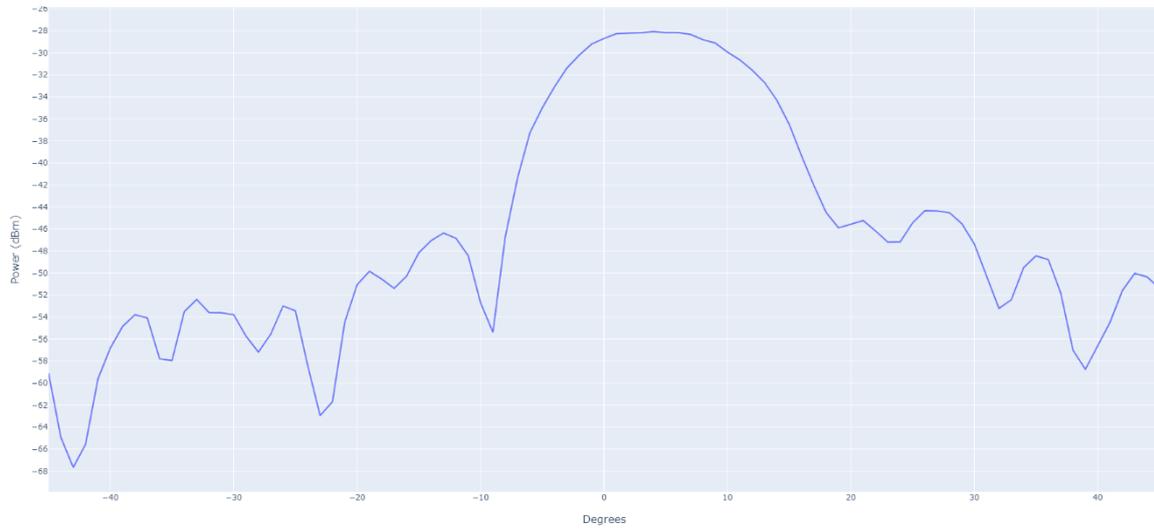


Figure 3: TX3 Antenna diagram – Elevation



## Antenna Gain

All antennae have a gain of 22.5 dBi over the frequency range of 61 ... 61.5 GHz (based on simulations).

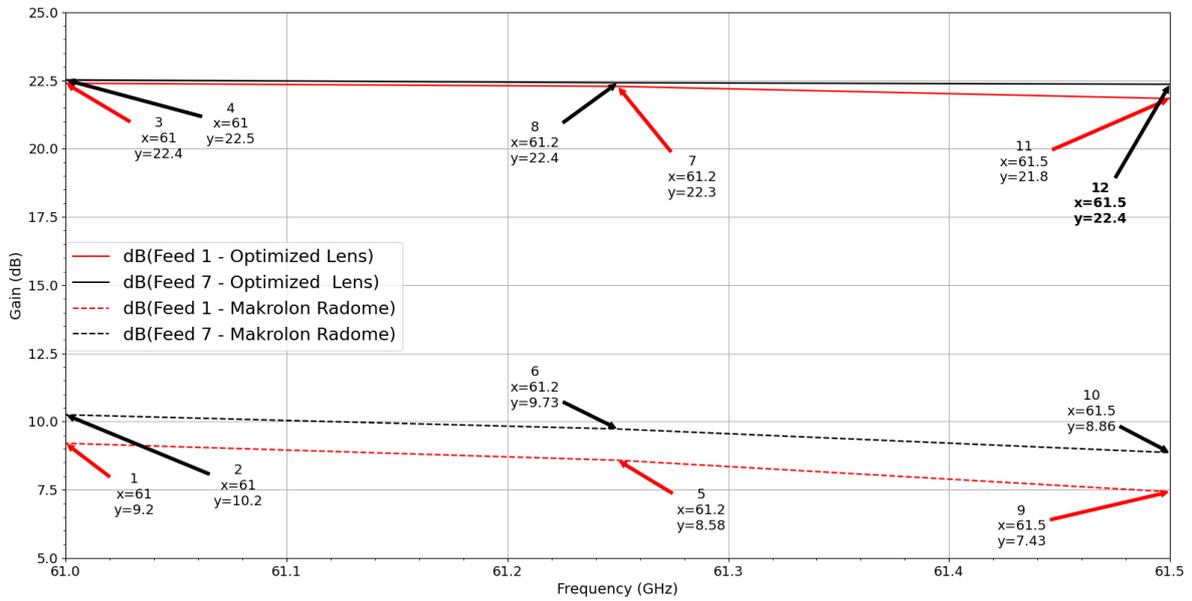


Figure 4: Antenna Gain over Frequency