

Athlon Glof Antenna Report

Athlon Glof

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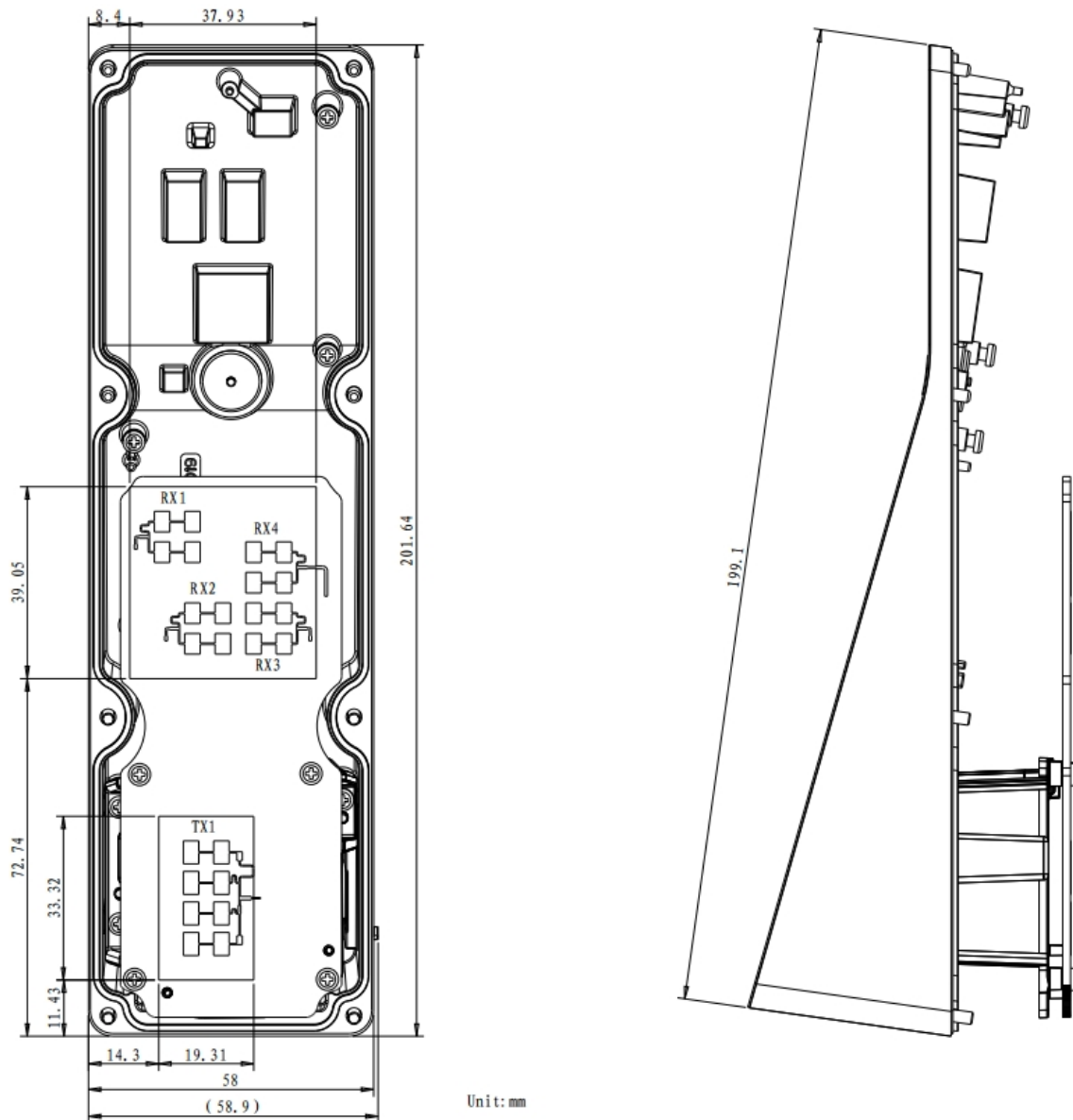
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1. Antenna Description

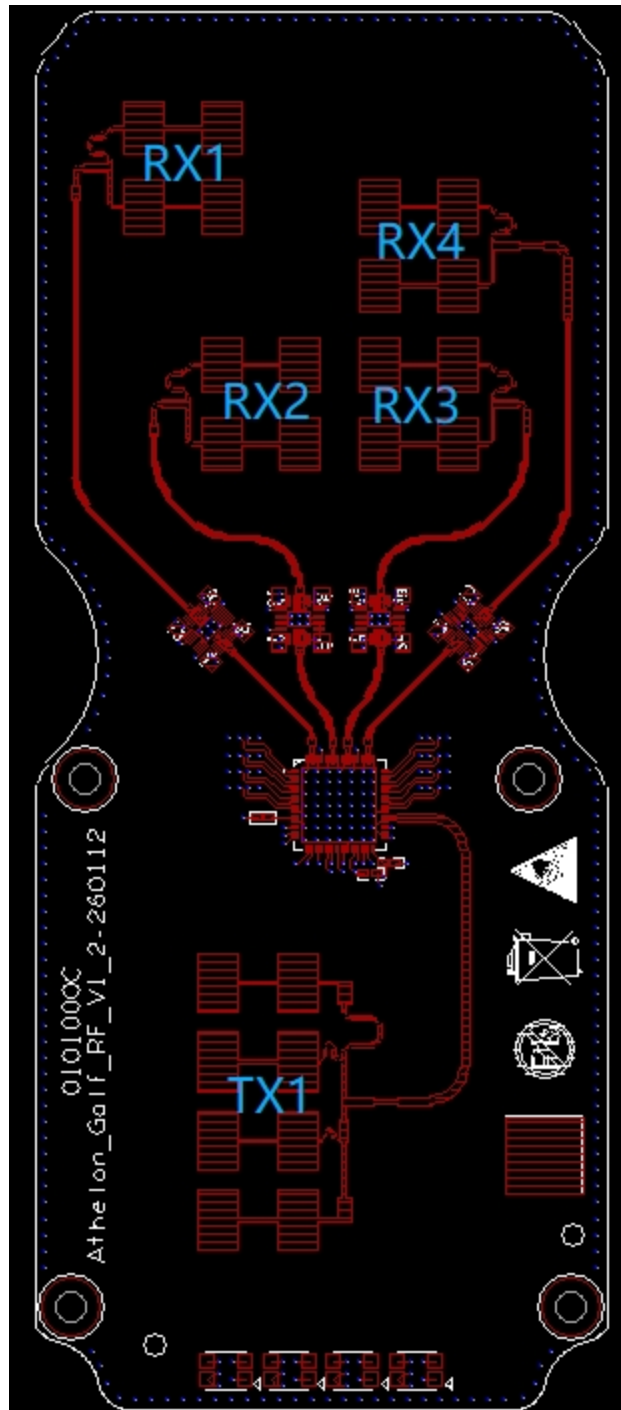
Athlon Glof radar has one transmitter and four receivers, Athlon Glof Tx(Transmitter) antenna is a 2×4 patch array antenna with a gain of 11.7 dBi. Rx(Receiver) antenna is a 2×2 patch array antenna with a gain of 9 dBi. The frequency range of the antenna is 24 to 24.25 GHz.

2. Antenna Layout and Dimensions

Antenna area view in Mechanical dimensions:

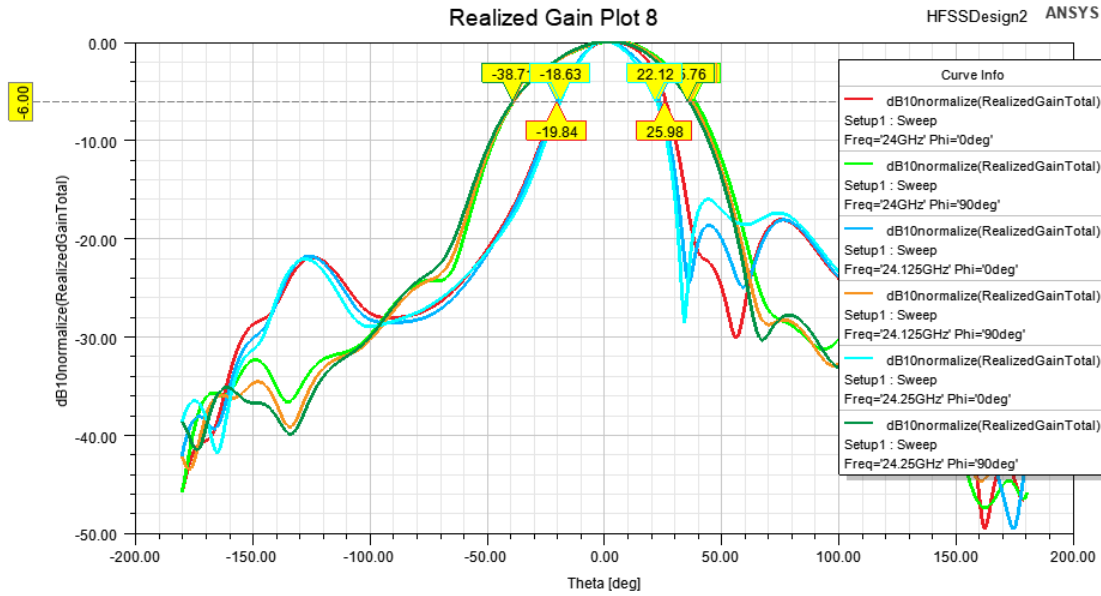


Antenna area view in PCB design:



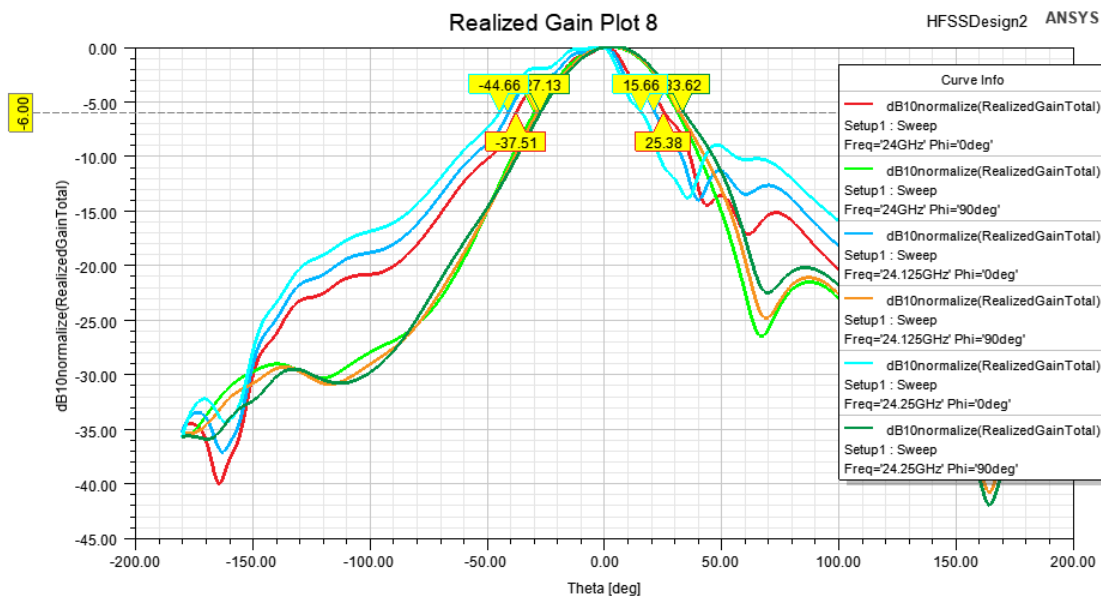
3. Antenna Simulation Report

Tx Antenna Simulation Result:



Realized Gain(dBi)	11.7
3dB Beam width: (Azimuth,Elevation) (deg)	54*(32)
6dB Beam width: (Azimuth,Elevation) (deg)	75*(43)

Rx Antenna Simulation Result:



Realized Gain(dBi)	9
3dB Beam width: (Azimuth,Elevation) (deg)	42*(37)
6dB Beam width: (Azimuth,Elevation) (deg)	60*(62)

4. Antenna manufacturer name and address

Shennan Circuit Co., Ltd

99 Qiaocheng East Road, Nanshan District, Shenzhen, Guangdong, China