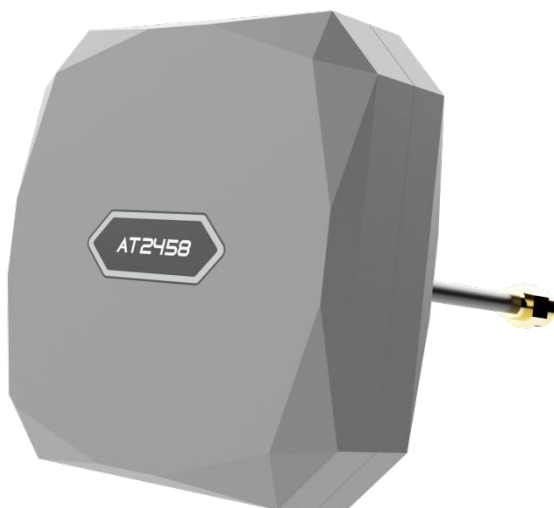


SKYDROID 云卓

云卓科技（福建）有限公司



AT2458 定向天线

用户手册

V1.0

免责声明

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注意事项

- ⚠ 请勿在潮湿、高温、多尘、振动等环境中使用本产品。
- ⚠ 雷雨天气请勿将天线设在户外，避免雷击。
- ⚠ 产品应远离高压、热源、腐蚀剂、可燃气体等危险物品。
- ⚠ 产品需稳固放置，避免在不易固定天线的地面架设，天线架设后移动将影响飞行距离。
- ⚠ 尽量避免在有行人或车辆经过的地方架设天线，避免天线受到碰撞后产生倾斜或位移。
- ⚠ 为保证信号传输，天线尽量架设在空旷、无遮挡的环境下，有遮挡时需架设超过遮挡物体高度。
- ⚠ 选点应避免无电磁波干扰，架设时应远离手机信号基塔、雷达站、高压线等。
- ⚠ 请在温度-55℃~+75℃的天气使用本天线，温度过低会影响天线性能，温度过高

可能会引起外壳变形或融化、影响内部天线性能。

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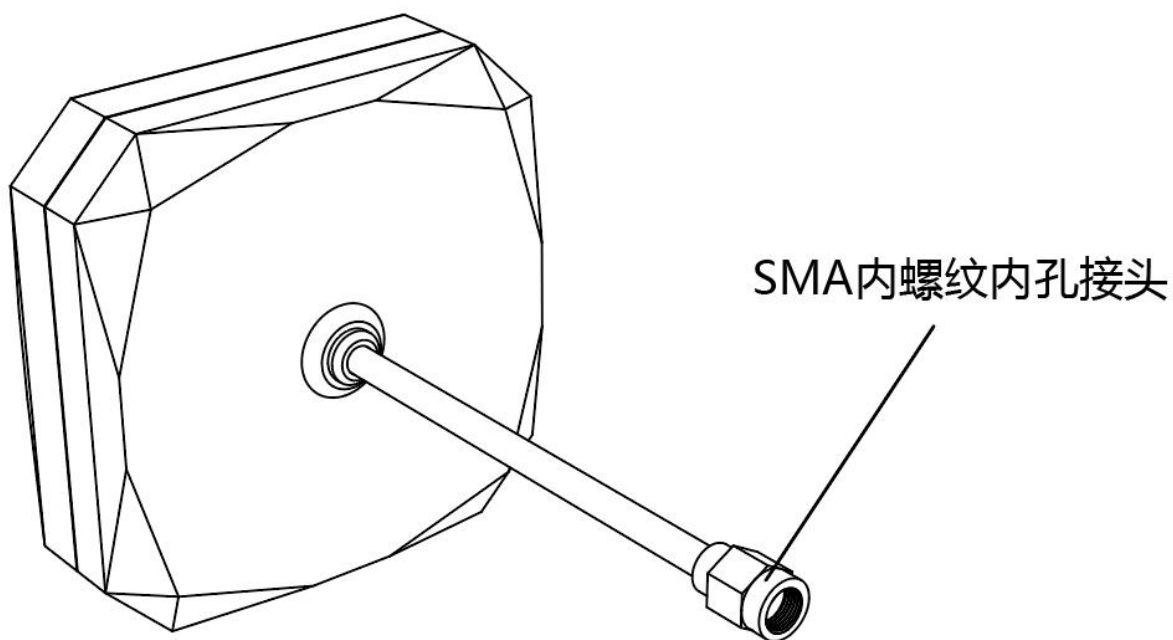
5. 参数表 5

天线简介

AT2458 平板定向天线是一款高增益, 双频双极化的小型移动定向平板天线, 具备轻便、传输距离长、稳定可靠等特点, 适用与 G20 系列遥控器搭配使用, 增强无人机图数控信号距离。

1. 部件名称

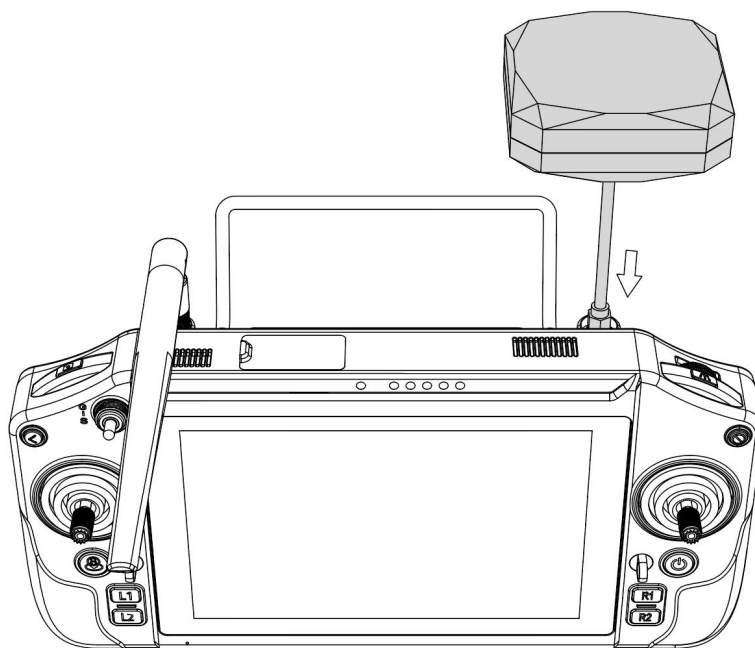
天线接口定义如图所示。



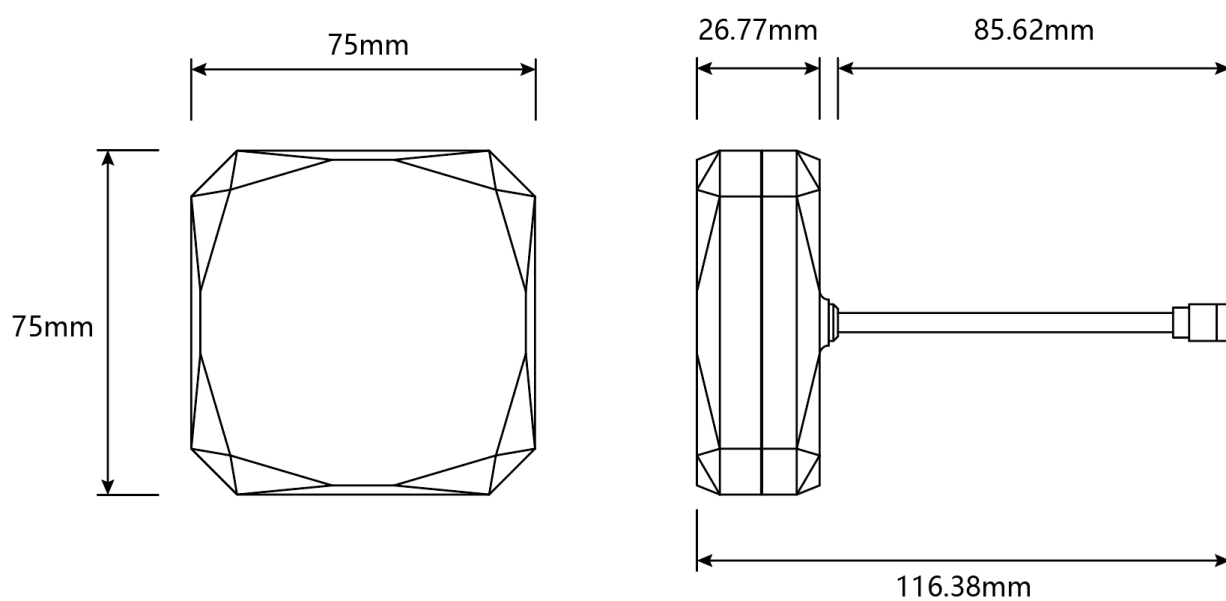
2. 安装方式

此天线可搭配 G20 遥控器使用。

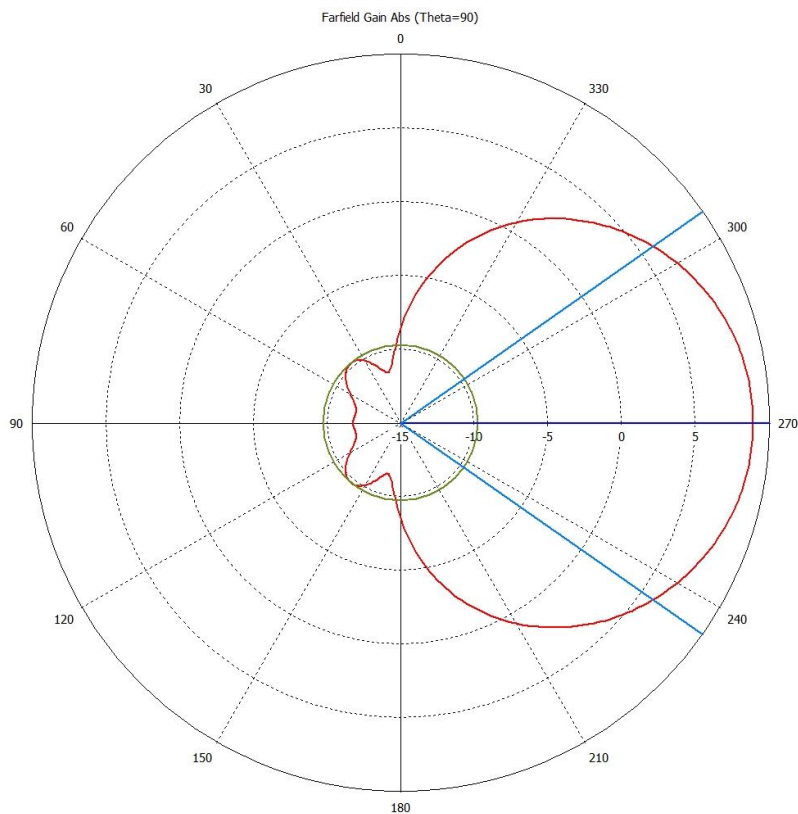
拧下遥控器端原天线，把天线 SMA 接头直接拧到遥控器天线接口并拧紧。（见下图安装示意图）



3. 天线尺寸

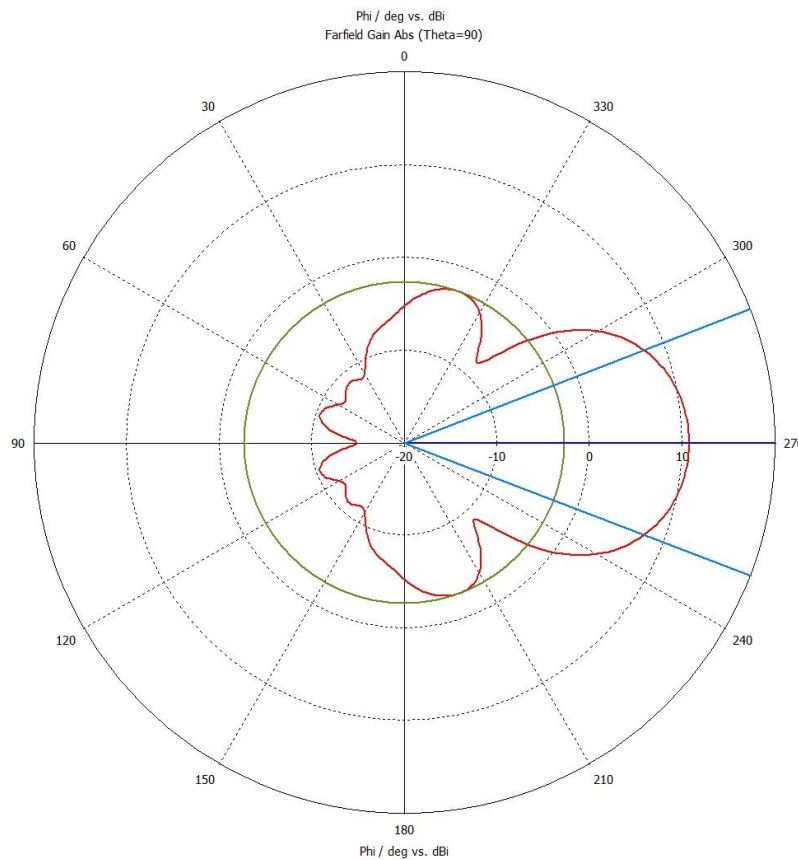


4. 天线参数



天线增益

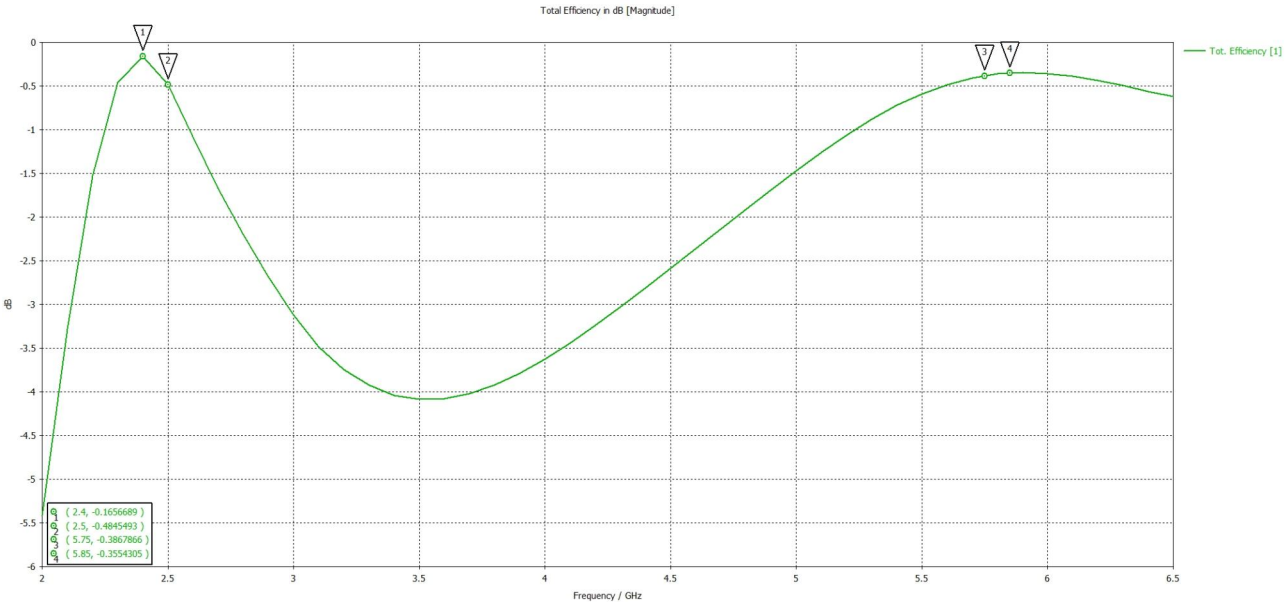
Frequency = 2.4 GHz
Main lobe magnitude = 8.88 dBi
Main lobe direction = 270.0 deg.
Angular width (3 dB) = 70.0 deg.



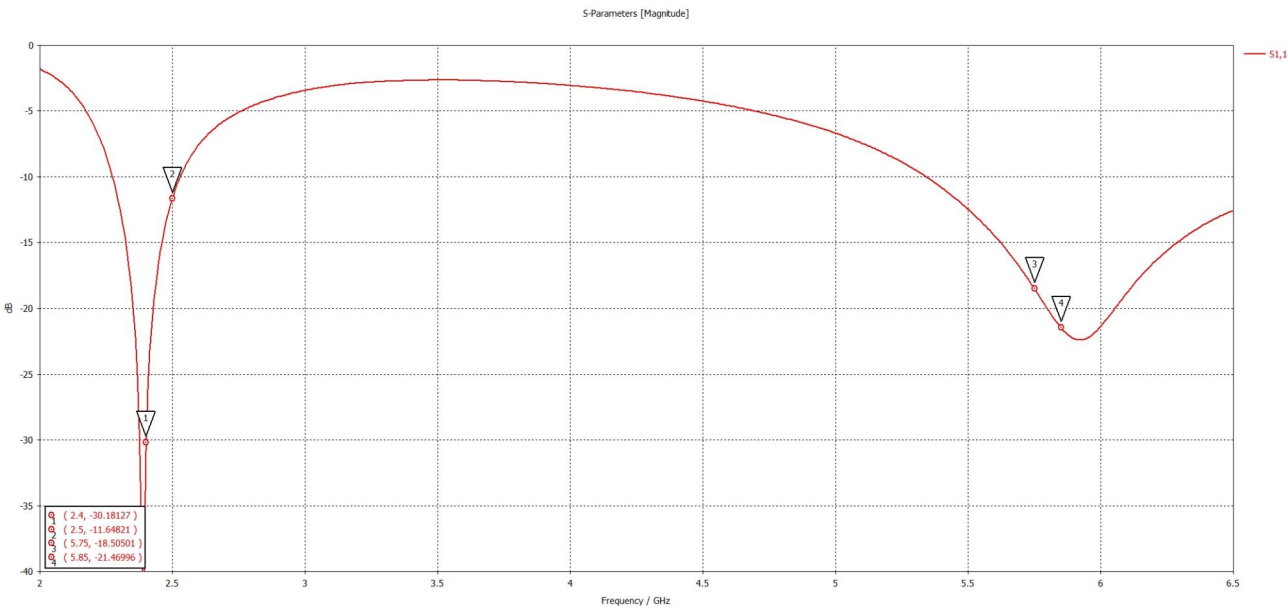
天线增益

Frequency = 5.8 GHz
Main lobe magnitude = 10.7 dBi
Main lobe direction = 270.0 deg.
Angular width (3 dB) = 42.1 deg.

天线效率



S11



5. 参数表

双频段双极化天线		
型号	AT2458	
天线频率	2400-2500MHZ	5150-5850MHz
极化方式	双极化 垂直、水平	
天线增益	8.8dBi	10.7dBi
波束宽度	水平 60.8° 垂直 70°	水平 48.6° 垂直 42°
S11	≤ -12	≤ -18
输入阻抗	50Ω	
最大功率	200w	
接口类型	SMA 公头（内螺内孔）	
尺寸	75（长）*75（宽）*116.38（高）mm	
天线重量	47g	
工作温度	-55°C ~ +75°C	

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SKYDROID TECHNOLOGY (FUJIAN) CO., LTD



AT2458 Flat Panel Directional Antenna

User Manual

V1.0

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Cautions

⚠ Do not use this product in environments with high humidity, high temperature, excessive dust, or strong vibration.

⚠ Do not install the antenna outdoors during thunderstorms to avoid lightning strikes.

⚠ Keep the product away from dangerous items such as high-voltage equipment, heat sources, corrosives, and flammable gases.

⚠ Place the product securely; avoid erecting it on unstable ground. Moving the antenna after installation will reduce flight range.

⚠ Minimize erecting the antenna in area with pedestrian or vehicle traffic to prevent the antenna from tilting or shifting due to collision.

⚠ To ensure signal transmission, install the antenna in an open, unobstructed area. If there are obstacles, the antenna must be installed higher than the obstacles.

⚠ Select the installation site to avoid electromagnetic interference; keep the antenna away from mobile phone base stations, radar stations, high-voltage lines, etc.

⚠ Use this antenna in temperature ranging from -55°C to +75°C. Excessively low temperatures will degrade antenna performance, while excessively high temperatures may cause the housing to deform or melt and affect the internal performance of the antenna.

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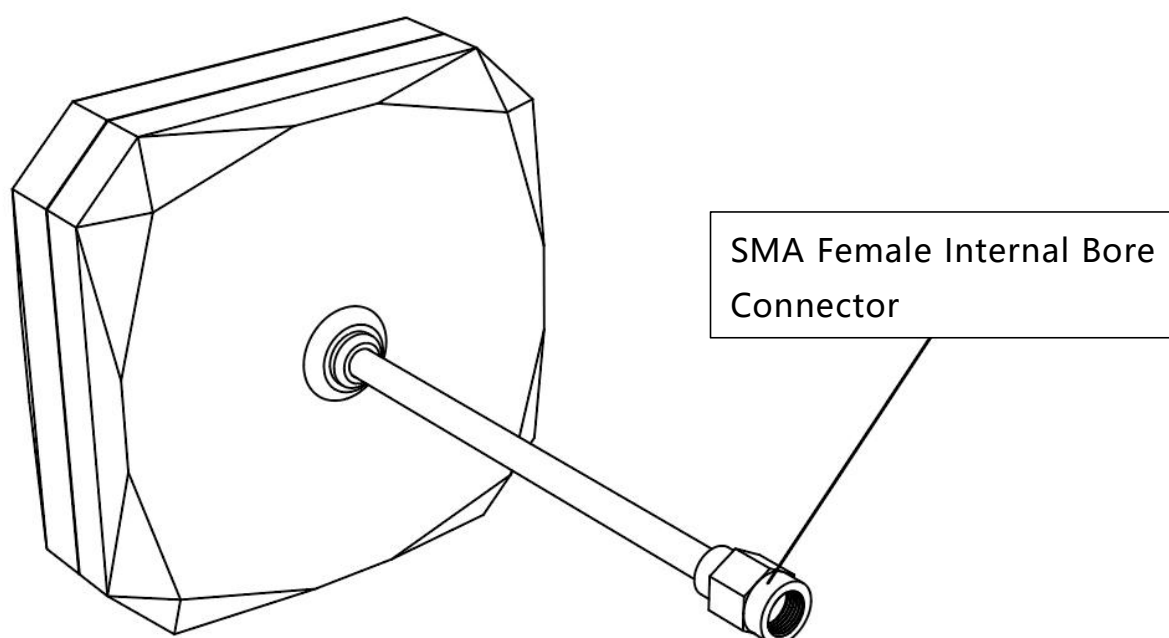
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Antenna Overview

AT2458 Flat Panel Directional Antenna is a compact mobile directional flat panel antenna featuring high gain, dual-band and dual-polarization. It boasts lightweight design, long transmission distance, and stable and reliable performance. Specifically designed for use with the G20 series remote controllers, it effectively extends the signal range of drone telemetry, video and control systems.

1. Component Identification

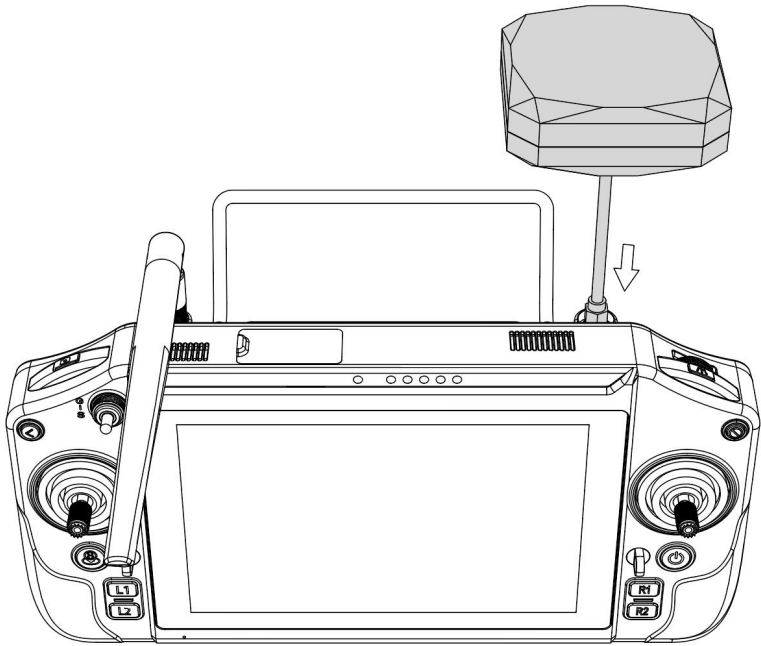
The definitions of the antenna interfaces are shown in the figure below.



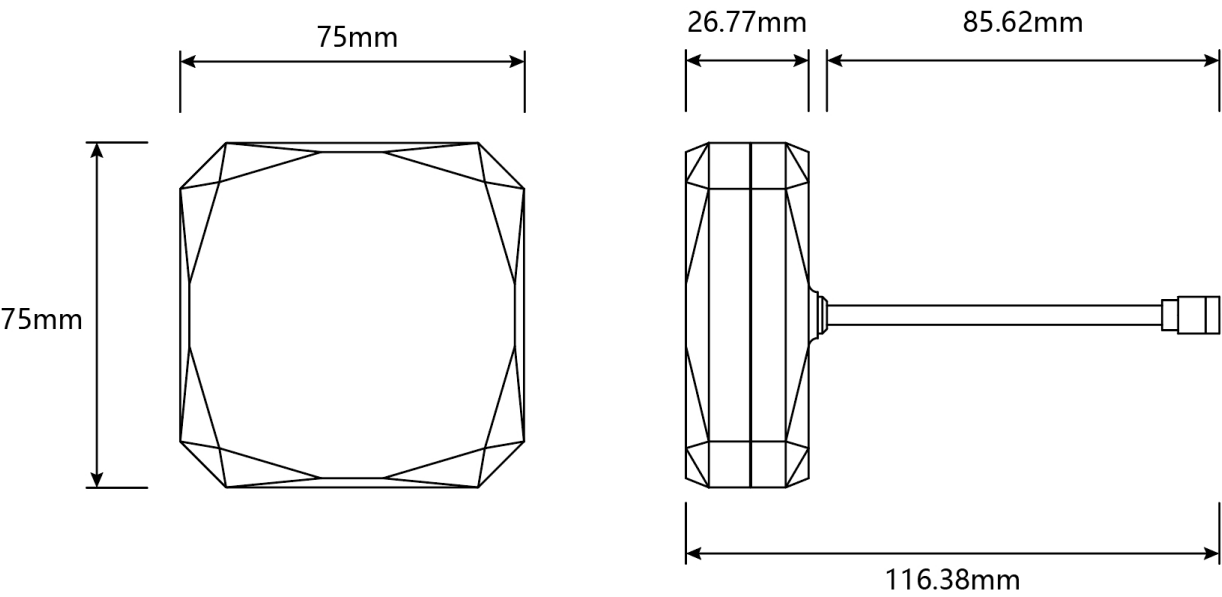
2. Installation Methods

This antenna is compatible with the G20 remote controller.

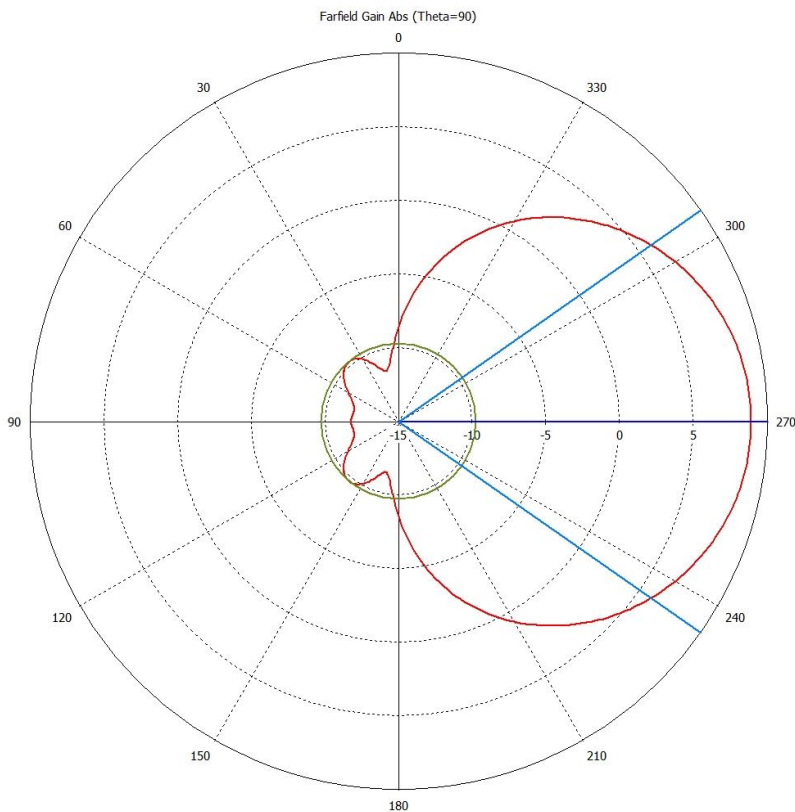
Unscrew the original antenna from the remote controller, then screw the SMA connector of this antenna directly into the remote controller's antenna port and tighten it securely. (Refer to the installation diagram below)



3. Antenna Dimensions



4. Antenna Specifications



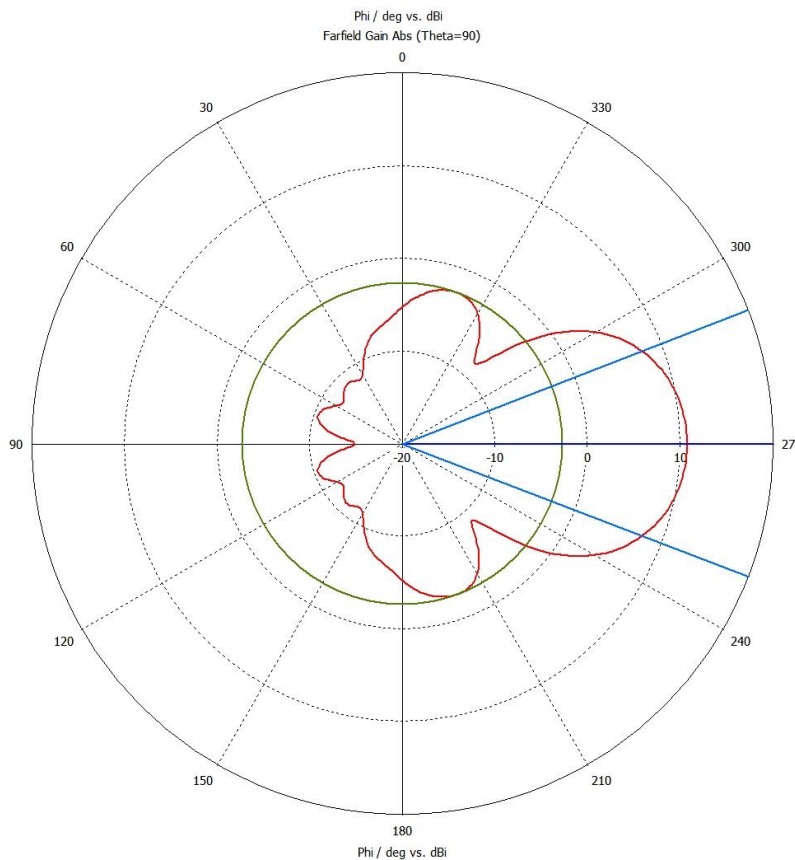
Antenna Gain

Frequency = 2.4 GHz

Main lobe magnitude = 8.88 dBi

Main lobe direction = 270.0 deg.

Angular width (3 dB) = 70.0 deg.



Antenna Gain

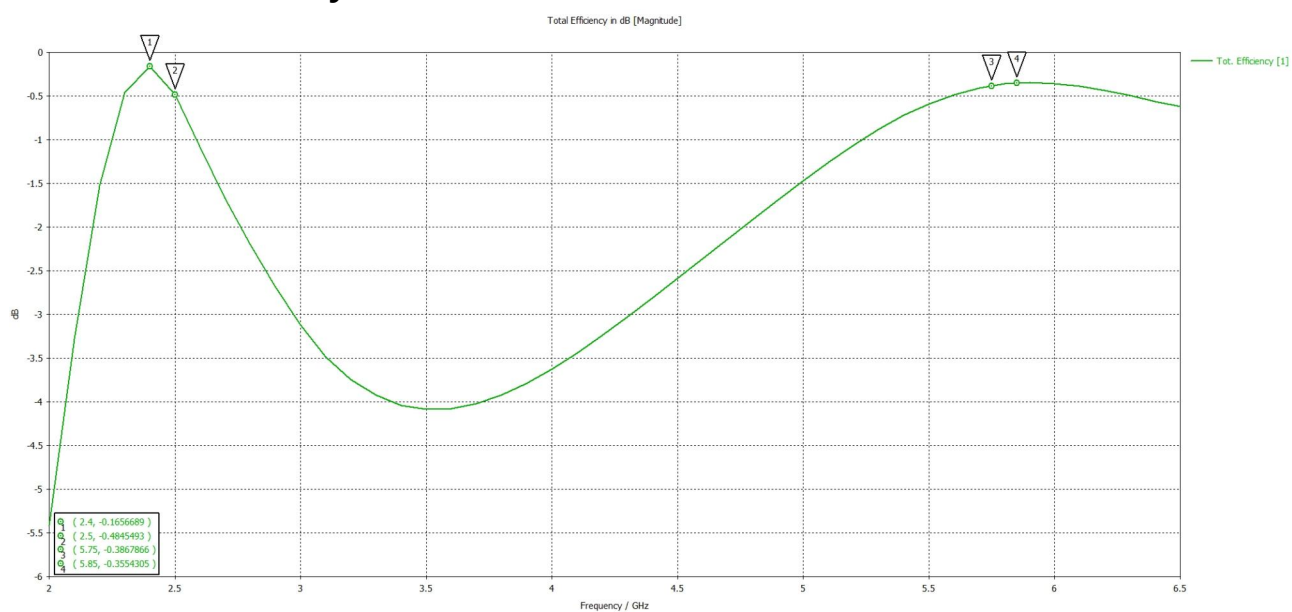
Frequency = 5.8 GHz

Main lobe magnitude = 10.7 dBi

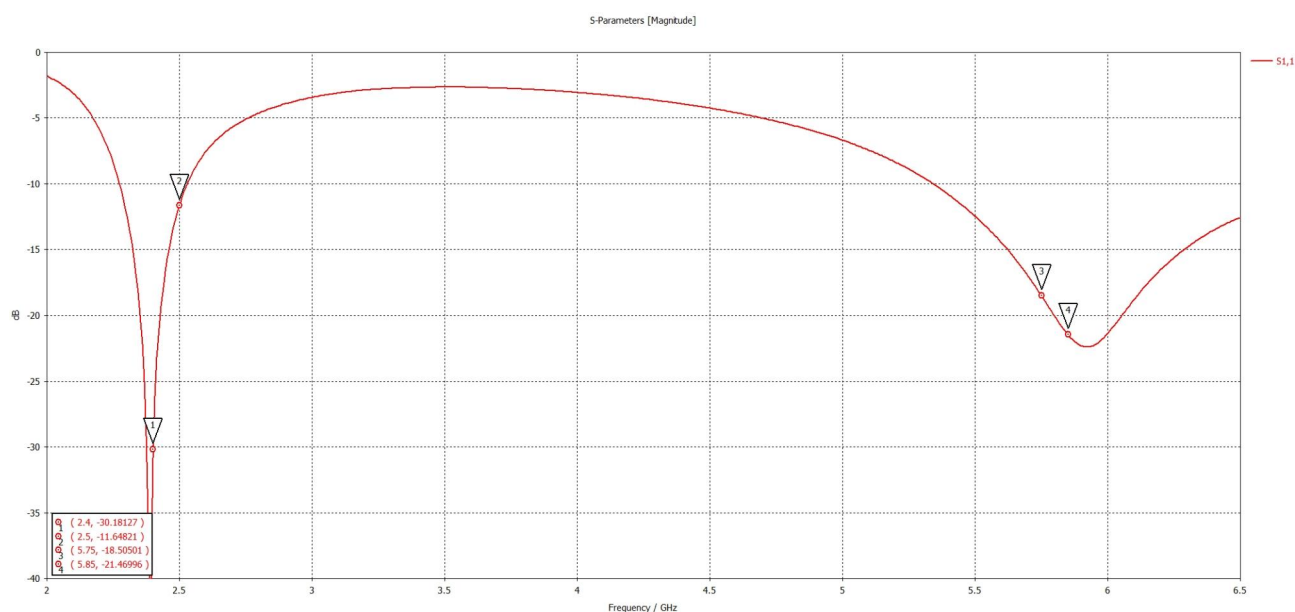
Main lobe direction = 270.0 deg.

Angular width (3 dB) = 42.1 deg.

Antenna Efficiency



S11



5. Parameters

Dual-band Dual-polarization Antenna		
Model	AT2458	
Antenna Frequency	2400-2500MHZ	5150-5850MHz
Polarization	Dual Polarization (Vertical, Horizontal)	
Antenna Gain	8.8dBi	10.7dBi
Beamwidth	Horizontal: 60.8° Vertical: 70°	Horizontal: 48.6° Vertical: 42°
S11	≤ -12	≤ -18
Input Impedance	50Ω	
Maximum Power	200w	
Interface Type	SMA-J (Internal Thread & Inner Hole)	
Dimensions	75 (L) *75 (W) *116.38 (H) mm	
Antenna Weight	47g	
Operating Temperature	-55°C ~ +75°C	

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