



MAPLE WIRELESS

PRODUCT MANUAL

Company culture

About us

Quanzhou MAPLEWIRELESS Electronics Technology Co., Ltd., established in 2019, is a comprehensive telecommunications enterprise specializing in the R&D, design, production, and sales of wireless communication antennas.

Our brand, Fengye Wireless, was founded in 2015. It focuses on the R&D, production, and sales of wireless communication equipment and antennas for the radio control (RC) model, drone, and film/television production industries. Fengye Wireless has earned high recognition and a strong market reputation within these sectors.

Sales Network

With a network of over 50 sales and service outlets worldwide.

Contact Information

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Wechat



Tiktok

MAPLE WIRELESS

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Antenna for video goggles

Series



01

▶ Product name

HDZ S1 Racing Antenna

▶ product

This product is a racing antenna designed specifically for HDzero video goggles. Featuring high gain, circular polarization, and an adjustable-angle structure, it allows pilots to maintain a comfortable posture during FPV racing, significantly enhancing the stability of the video transmission and the quality of the image.

▶ Specifications

Frequency:	5645-5925 MHz	Type	: SMA
Gain:	10.5 dBi	Size	: 70*45*12mm
Half power beam:	75°H-plane 40°E-plane	Weight	: 28g
Polarization:	LHCP/RHCP	Color	: Black / pink



02



Mjölnir-N3 Antenna

Frequency: 5660-5914MHz

Gain: 8.5dBi

Half power Beam: 75°H-Plane 75°E-Plane

Type: RP-SMA

Polarization: LHCP/RHCP

Size : 44*12mm

Weight: 10.8g (Single Antenna)



DJI V2-Antenna

Frequency: 5660-5914MHz

Gain: 8.5dBi

Half power Beam: 75°H-Plane 75°E-Plane

Type: RP-SMA

Polarization: LHCP/RHCP

Size : 44*12mm

Weight: 80g



DJI G2-Antenna

Frequency: 5660-5914MHz

Gain: 11.2dBi

Half power Beam: 70°H-Plane 35°E-Plane

Type: MCX-L

Polarization: LHCP

Size: 82*42*24(mm)

Weight: 19g



8.5dBi-Antenna

Frequency: 5500-5800MHz

Gain: 8.5dBi

Half power beam: 75°H-plane 75°E-plane

Type: RP-SMA / SMA-MALE

Polarization: LHCP / RHCP

Size: 44*10mm

Weight: 16g



11dBi-Antenna

Frequency: 5500-5800MHz

Gain: 11dBi

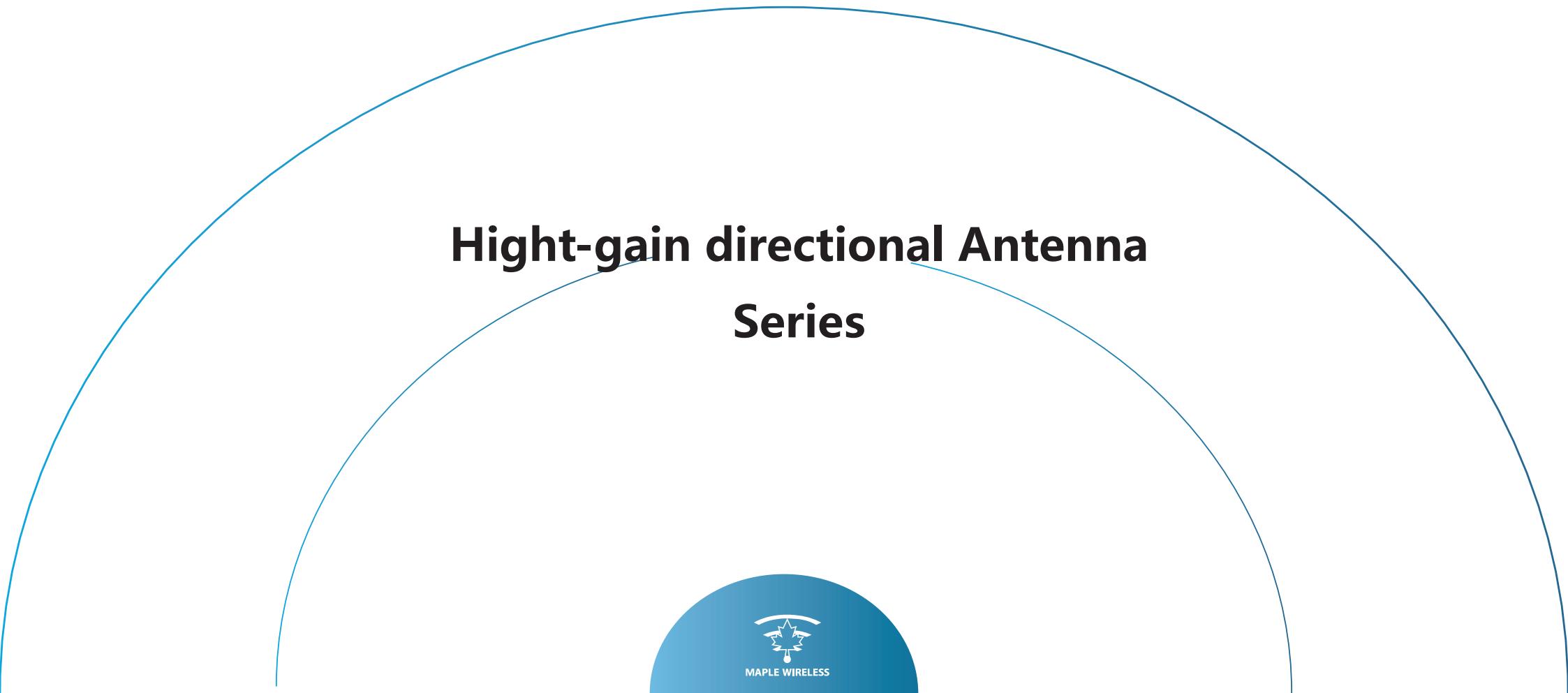
Half power beam: 75°H-plane 40°E-plane

Type: RP-SMA / SMA-MALE

Polarization: LHCP / RHCP

Size : 82*42*24

Weight: 19g



Hight-gain directional Antenna Series



▶ Product name**1.2G 12dBi****Circular polarization****▶ Product Introduction**

This antenna features an integrated left-hand and right-hand circular polarization design (LHCP/RHCP), capable of simultaneous operation and seamless switching between modes.

It offers ultra-wideband coverage across all channels from 1080 to 1360 MHz. Key performance metrics include a voltage standing wave ratio (VSWR) < 1.4 and an axial ratio (AR) < ±0.5 dB across the entire frequency band. It is ideally suited for long-range video transmission, FPV (First Person View), and other specialized applications involving high-speed moving targets.

▶ Specifications

Frequency:	1080-1360MHz	Type	: SMA
Gain:	12.8dBi	Size	: 410*240*65mm
Half power beam:	60°H Plane 35°E Plane	Scope of Use:	120°
Polarization:	LHCP / RHCP	Weight	: 920g



05

▶ Product name

DJI Tranmission Antenna

▶ Product Introduction

Perfectly compatible with DJI Transmission.Tri-band (2.4/5.8GHz+DFS), auto-tuning, zero setup .High gain , strong anti- interference , and superior penetration . Doubles performance in complex scenes, extends clear range by 100%.Ideal for large film projects and outdoor sports like football and marathons.

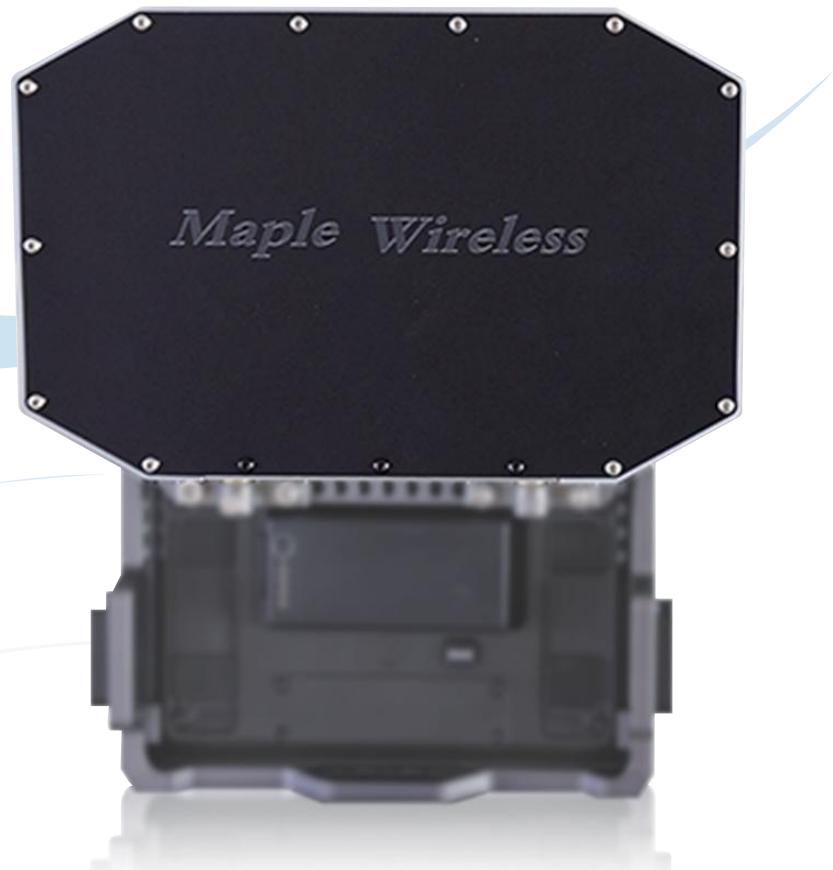
▶ Specifications

Frequency: 2.4-2.5GHz / 5.18-5.9GHz Type: RP-SMA

Gain : 10dBi / 15dBi Size: 260*170*45

Half Power Beam: 65°H-plane 60°E-plane / 40°H-plane 35°E-plane

Polarization: Linear Polarization Weight: 437g



▶ Product name

4.9/5.5-5.8G 21dBi Antenna

▶ Product Introduction

This product is designed for remote communication with a high-gain and lightweight design. It supports dual frequency bands of 4.5–5.4 GHz / 5.18–5.8 GHz, with a gain of up to 21 dBi. It can be used for Raspberry Pi HD transmission, SIYI HM30 HD transmission, high-power analog transmission, and other electronic devices that support 5G low-frequency channels, effectively avoiding Wi-Fi interference frequencies.



▶ Specifications

Frequency: 4500-5400MHz Type: RP-SMA/SMA-MALE

Gain : 21dBi Size: 186*186*15mm

Half power beam: 15°E-Plane 15°E-Plane Weight: 162g

Polarization: Linear Polarization

Frequency: 5180-5800MHz Type: RP-SMA/SMA-MALE

Gain: 21dBi Size: 186*186*15mm

Half power beam: 15°E-Plane 15°E-Plane Weight: 162g

Polarization: Linear Polarization

▶ Product name

4-7.3G 20dBi wideband circularly polarized antenna

▶ Product Introduction

The product is designed for long-range FPV. It offers three selectable frequency bands: 4–5 GHz / 4.85–6.3 GHz / 6–7.2 GHz, featuring a wideband circularly polarized design with VSWR ≤ 1.4 across all bands and a maximum gain of up to 20 dB. The antenna helps reduce image flickering, quality degradation, and signal loss during high-speed FPV flights. Its high directivity provides strong anti-interference capability, expanding the range of applications.



▶ Specifications

Frequency:	4850-6300MHz	Type:	RP-SMA/SMA-MALE
Gain:	20dBi	Size:	208*208*35mm
Half power beam:	16°E-Plane 16°E-Plane	Weight:	255g
Polarization:	RHCP		

▶ Specifications

Frequency:	6000-7200MHz	Type:	RP-SMA/SMA-MALE
Gain:	20dBi	Size:	200*200*32mm
Half power beam:	16°E-Plane 16°E-Plane	Weight:	230g
Polarization:	RHCP		

▶ Specifications

Frequency:	4000-5000MHz	Type:	RP-SMA/SMA-MALE
Gain:	17dBi	Size:	207*140*38mm
Half power beam:	14°E-Plane 28°E-Plane	Weight:	218g
Polarization:	RHCP		

▶ Product name

5-6GHz 17dBi Antenna

▶ Product Introduction

This product is a high-gain wideband directional antenna that covers the entire 5G frequency band. Its asymmetric beam design provides strong anti-interference capability and extended coverage distance. It is widely used in video goggles, FPV, Wi-Fi, and other application scenarios.

▶ Specifications

Frequency:	5000-6000MHz	Type:	RP-SMA / SMA-MALE	
Gain:	17dBi	Size:	68*60*25mm	
Half power beam:	15°E-Plane	40°H-Plane	Weight:	94g
Polarization:		Vertical Polarization.		



RC Link Antenna Series



▶ **Product name**

MOXON Antenna

▶ **Product Introduction**

The 868–915–2.4G triple-band MOXON antenna is designed for RC remote control systems. It is compatible with TBS Crossfire 868/915 MHz modules as well as all ELRS modules and remote control devices operating on the 868, 915, and 2.4 GHz frequency bands. The antenna provides extended signal range and reliable signal quality, offering up to 30 % more range compared to omnidirectional antennas, thereby reducing the risk of signal loss and control failure.

▶ **Specifications**

Single-band

Frequency:	720-780MHz	Type:	RP-SMA/SMA-MALE
Gain :	4.5dBi	Size:	110*45*1.5mm
Half Power Beam:	180°H-Plane 80°E-Plane	Weight:	18.5g
Polarization:	Linear Polarization		



▶ **Specifications**

Dual-band

Frequency:	868-915MHz/2.4GHz	Type:	RP-SMA/SMA-MALE
Gain :	4.5dBi	Size:	110*45*1.5mm
Half Power Beam:	180°H-Plane 80°E-Plane	Weight:	18.5g

▶ **Product name**

2.4G Yagi Antenna

▶ **Product Introduction**

This product is a remote control signal range-extension antenna. It is suitable for controllers and ELRS modules operating at 2.4G frequency. With an asymmetric beamwidth design, it provides coverage of over 120° and more than double the range of an omnidirectional antenna. Its lightweight design makes it convenient to use and carry.

▶ **Specifications**

Frequency : 2400-2483MHz Type : SMA-MALE/RP-SMA

Gain : 8dBi Size : 180*180*34mm

Half Power Beam : 100° H-Plane 65° E-Plane Weight : 17g

Polarization : Linear Polarization



▶ **Product name**

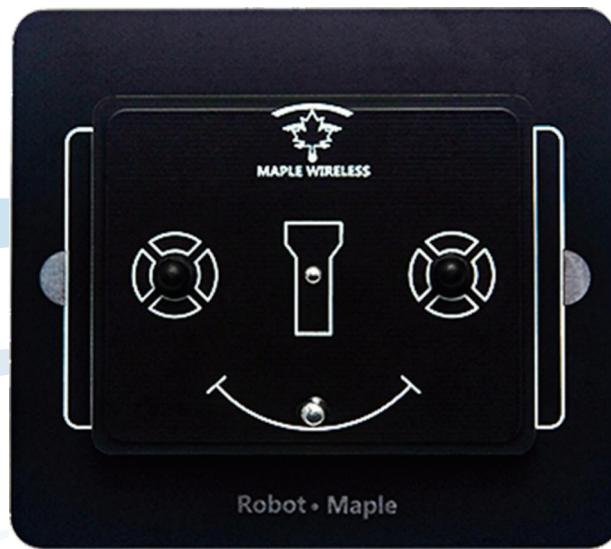
2.4G9dBi Antenna

▶ **Product Introduction**

This product is a cost-effective antenna with a gain of 9 dB. It can be used for extending the range of 2.4G remote controls, enhancing Wi-Fi signals, and improving transmission signals, as well as for other wireless devices operating in the 2.4G frequency band.

▶ **Specifications**

Frequency:	2400-2483MHz	Type:	RP-SMA/SMA-MALE
Gain:	9dBi	Size:	90*80*10mm
Half Power Beam:	60°E-Plane	65°E-Plane	Weight:
Polarization:			17g
Linear Polarization			



▶ **Product name**

2.4G 14dBi Antenna

▶ **Product Introduction**

This product is designed for devices operating in the 2.4G frequency band. Featuring a 2×2 antenna array, it achieves a gain of up to 14 dB, with similar radiation angles (40°) in both horizontal and vertical directions. It is well-suited for long-distance point-to-point communication and environments with strong interference, enhancing communication range and quality.

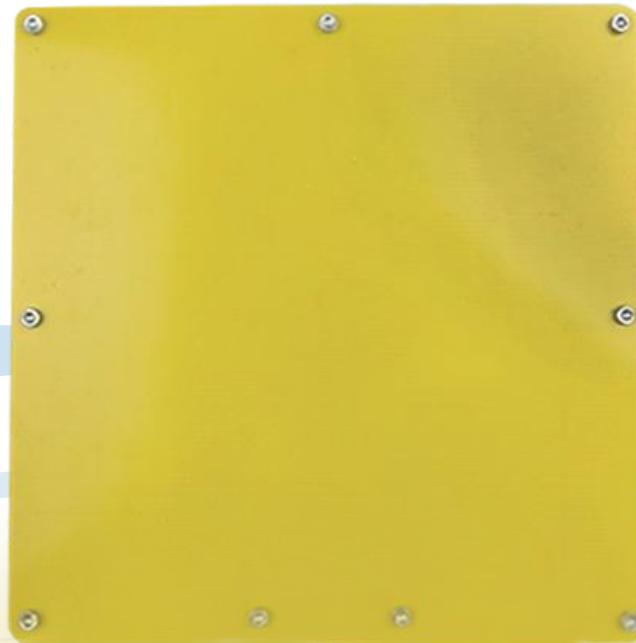
▶ **Specifications**

Frequency: 2400-2483MHz Type: RP-SMA/SMA-MALE

Gain: 14dBi Size: 180*180*34mm

Half Power Beam: 40°E-Plane 38°H-Plane Weight: 330g

Polarization: Linear Polarization



► **Product name**

900MHz 13.5dBi Fold Antenna

► **Product Introduction**

This product is a high-gain Yagi directional antenna with quick-detach and foldable storage design. In the combined state, it is suitable for long-range communication with a gain of up to 13.5 dB; in the detached state, it provides wide coverage with 8 dBi gain, making it adaptable to different application scenarios. (Available in multiple frequency bands)

► **Specifications**

Frequency:	700-800MHz	Type:	SMA-MALE
Gain:	13.5dBi	Combined Dimensions:	1110*220*30mm
Half Power Beam:	35°E-Plane 35°H-Plane	Separate Dimensions:	580*220*45mm
Polarization:	Linear Polarization	Weight:	322g



Frequency:	850-930MHz	Type:	SMA-MALE
Gain:	13.8dBi	Combined Dimensions:	980*190*30mm
Half Power Beam:	35°E-Plane 35°H-Plane	Separate Dimensions:	515*215*45mm
Polarization:	Linear Polarization	Weight:	285g

**2.4GHz MINI T Antenna**

Frequency: 2400-2483MHz

Gain: 2dBi

Half Power Beam: 360°H-Plane 80°E-Plane

Type: IPEX 1

Polarization: Linear Polarization

Size: 52*50mm

Weight: 1.3g

**915MHz T Antenna**

Frequency: 860-930MHz (Custom frequencies available)

Gain: 2dBi

Half Power Beam: 360°H-Plane 80°E-Plane

Type: IPEX 1

Polarization: Polarization

Size: 136mm

Weight: 3.5g

**915MHz/2.4G T Antenna**

Frequency: 915MHz/2.4G

Gain: 2dBi

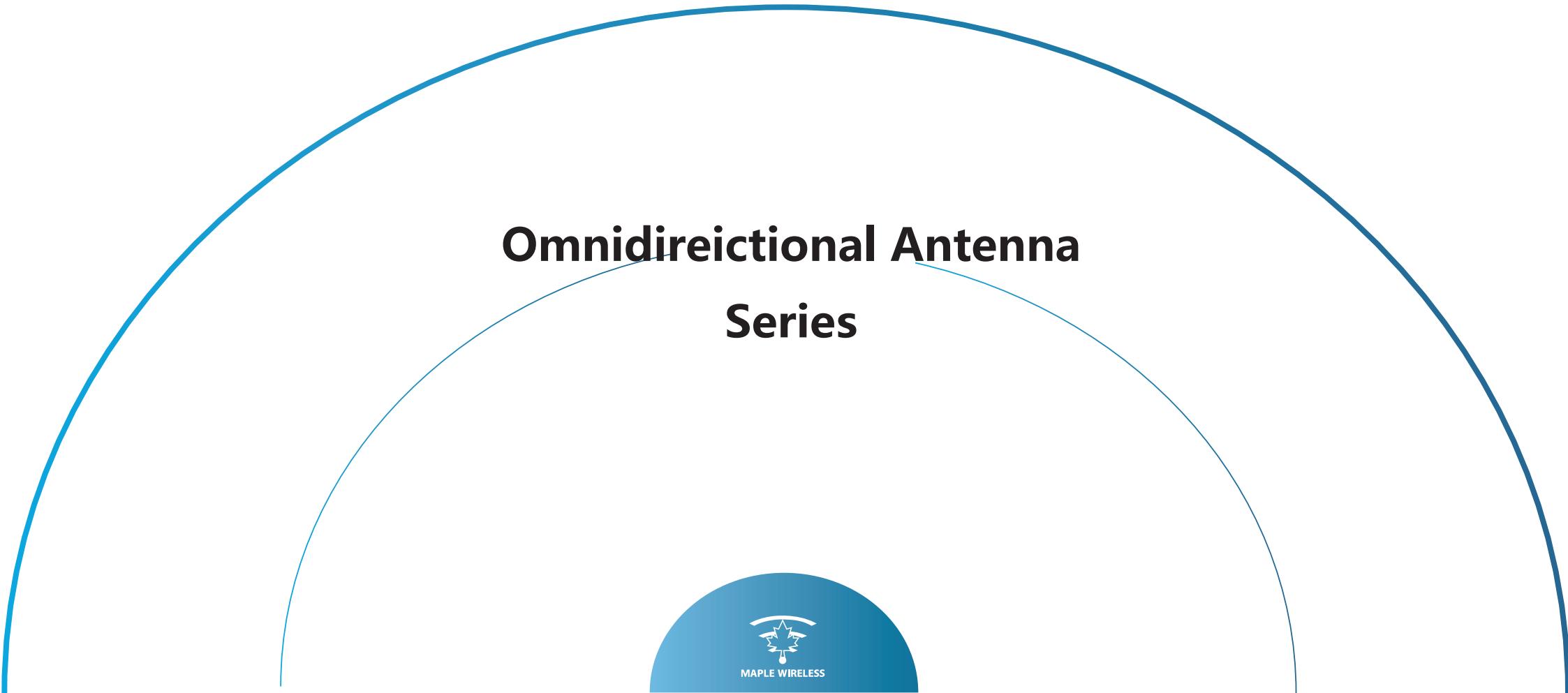
Half Power Beam: 360°H-Plane 80°E-Plane

Type: IPEX 1

Polarization: Polarization

Size: 136mm

Weight: 3.8g



Omnidirectional Antenna Series



▶ **Product name**

1.28G Circular Antenna

▶ **Product Introduction**

This product is suitable for FPV or mobile video and audio transmission, featuring an integrated antenna filtering circuit that effectively suppresses interference and enhances transmission performance.

▶ **Specifications**

Frequency: 1240-1290MHz Type: RP-SMA/SMA-MALE

Gain: 1.5dBi Size: 41*170mm

Half Power Beam: 360°H-Plane 80°E-Plane Weight: 16.6g

Polarization: LHCP/RHCP



▶ 产品名称

3.3G Circular Antenna

▶ Product Introduction

This product is designed for HD digital and analog video transmission. It utilizes a pure copper dipole and high-frequency induction welding technology, delivering high radiation efficiency and consistent performance. It excels in FPV flight applications.

▶ Specifications

Frequency : 3100-3450MHz Type : SMA/IPEX/MMCX

Gain : 2dBi Size : 24*148mm

Half Power Beam: 360°H-Plane 90°E-Plane Weight: 13.8g

Polarization: LHCP/RHCP



► Product name

5.8G Circular Antenna

► Product Introduction

This product is compatible with both HD digital and analog video transmission systems. It utilizes a pure copper dipole element and high-frequency induction welding technology, delivering high radiation efficiency and excellent performance consistency. It performs exceptionally well in FPV flight applications.

► Specifications

Frequency: 5650-5914MHz Type: SMA/IPEX/MMCX

Gain: 2dBi Size: 68*60*25mm

Half Power Beam: 360°H-Plane 90°E-Plane Weight: 10g

Polarization: LHCP/RHCP





<http://www.maple-wireless.cn/>

For more information, please visit our only authorized official website.