

About Octane Wireless

Founded in 2003 and located in Hanover, Maryland, Octane Wireless (formerly Pharad) is a customer-focused company carrying out innovative design, development, and manufacturing in the areas of highly efficient, electrically small antenna technologies and high-performance RF signal transport over optical fiber. To meet the needs of our customers, we draw on the extensive and diverse experience of our engineering team in the areas of electromagnetics, photonics, and microwave engineering.

Our ISO 9001:2015 quality certification provides the framework for us to meet or exceed our customer's expectations for the delivery of high-quality services and products by our experienced design and production staff.

MANET/MIMO Antennas



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Octane Wireless offers a large selection of omni-directional antennas developed specifically for MANET and MIMO radio systems. The portfolio features innovative high performance, matched pairs of vertically and horizontally polarized omni-directional antennas available in a variety of mounting configurations, including gooseneck, spring base, rigid or fixed mounting base, as well as tactical vehicle spring versions. Dual-polarization assemblies are also available. Other configurations that support MANET and MIMO radios include UAV blades, stub antennas, conformal peel & stick appliques, as well as body wearable antennas.



Single-band Antenna Products

Frequency	Polarization	Mounting*	Typical Gain	Model Number
1350 – 1390 MHz	Horizontal	FB, GN, SP, PM	3.0 dBi	#H-1350-1390
	Horizontal	VS	5.0 dBi	VSH-1350-1390
	Vertical	FB, GN, SP, PM	3.0 dBi	#V-1350-1390(3)
	Vertical	VS	5.0 dBi	VSV-1350-1390
	Vertical	SA	2.3 dBi	SA-1350-1390
	Dual	BW	5.0 dBi	BW-1350-1390
1350 - 1525 MHz	Horizontal	FB, GN, SP, PM	5.0 dBi	#H-1350-1525(5)
	Horizontal	VS	5.0 dBi	VSH-1350-1525(5)
	Horizontal	VM	5.0 dBi	VMH-1350-1525(5)
	Vertical	FB, GN, SP, PM	5.0 dBi	#V-1350-1525(5)
	Vertical	VS	5.0 dBi	VSV-1350-1525(5)
	Vertical	VM	5.0 dBi	VMV-1350-1525(5)
2025 – 2110 MHz	Horizontal	FB, GN, SP, PM	5.0 dBi	#H-2025-2110
	Dual	VS	5.0 dBi	VSVH-1350-1525
2200 – 2500 MHz	Horizontal	FB, GN, SP, PM	5.0 dBi	#H-2200-2500
	Horizontal	VS	4.0 dBi	VSH-2200-2500
	Horizontal	VM	5.0 dBi	VMH-2200-2500
	Vertical	FB, GN, SP, PM	5.0 dBi	#V-2200-2500(5)
	Vertical	VS	4.0 dBi	VSV-2200-2500
	Vertical	VM	5.0 dBi	VMV-2200-2500
	Dual	VS	4.8 dBi	VSVH-2200-2500
	Dual	VM	5.0 dBi	VMVH-2200-2500
2700 - 2900 MHz	Horizontal	FB, GN, SP, PM	5.0 dBi	#H-2700-2900
	Dual	BW	5.0 dBi	BW-2400-2500-EG
4400 – 5000 MHz	Horizontal	FB, GN, SP, PM	5.1 dBi	#H-4400-5000
	Horizontal	VS	5.2 dBi	VSH-4400-5000
	Horizontal	VM	5.1 dBi	VMH-4400-5000
	Vertical	FB, GN, SP, PM	5.4 dBi	#V-4400-5000
	Vertical	VS	5.2 dBi	VSV-4400-5000
	Vertical	VM	5.1 dBi	VMV-4400-5000
	Dual	VS	4.7 dBi	VSVH-4400-5000
5000 – 5900 MHz	Horizontal	FB, GN, SP, PM	5.1 dBi	#H-5000-5900
	Vertical	FB, GN, SP, PM	5.3 dBi	#V-5000-5900

Dual and Tri-band Antenna Products

	Frequency	Polarization	Typical Gain	Mounting*	Model Number
Dual Band	1350 – 1390 / 2200 – 2500 MHz	Vertical	3.6 dBi	GN	MP-1350-2500
	1350 – 1390 / 4400 – 5000 MHz	Vertical	3.5 dBi	GN	MP-1350-5000
	2200 – 2500 / 4400 – 5000 MHz	Horizontal	4.0 dBi	VS	VSH-2200-5000
		Vertical	3.3 dBi	GN	MP-2200-5000
		Vertical	5.0 dBi	SA	SA-2200-4900
	4400 – 5000 / 5150 – 5950 MHz	Vertical	4.0 dBi	VS	VSV-2200-5000
Vertical		3.0 dBi	SA	SA-4400-5900	
Tri Band	225 – 400 / 698 – 970 / 1250 – 1850 MHz	Vertical	1.6 dBi	GN	MP-225-1850
	1350 – 1440 / 2200 – 2500 / 4400 – 5000 MHz	Vertical	5.0 dBi	FB, GN, SP, PM	#V-1350-5000
		Vertical		VS	VSV-1350-5000
		Vertical		VM	VMV-1350-5000
	1350 – 1850 / 2200 – 2500 / 4400 – 5900 MHz	Vertical	2.0 dBi	AA	AA-1300-6000
		Vertical	2.4 dBi	AU	AU-800-6000
	1750 – 1850 / 2000 – 2500 / 4400 – 5950 MHz	Vertical	1.3 dBi	AA	AA-1700-6000
2200 – 2500 / 4400 – 5000 / 5150 – 5950 MHz	Vertical	3.0 dBi	SA	SA-2200-5900	



Stub Antennas



UAV Blade Antenna



Gooseneck Antenna



Fixed Base Antenna



Pole Mount Antenna



Spring Antenna



Fixed Base Antenna



Vehicle Spring Antenna



*Mounting Configurations:

FB = Fixed Base (Model prefix # = F)
 GN = Gooseneck (Model prefix # = G)
 SP = Spring (Model prefix # = S)
 PM = Pole Mount (Model prefix # = P)
 AA = Peel and Stick Applique

Specifications subject to change without notice.

AU = UAV Blade
 BW = Body Wearable
 SA = Stub
 VM = Flange
 VS = Vehicle Spring