

## 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.



# UAV Antennas



Octane Wireless  
1340 Charwood Road, Suite L  
Hanover, Maryland 21076

Phone: (410) 590-3333  
Fax: (410) 590-3555  
Email: [info@octanewireless.com](mailto:info@octanewireless.com)

[www.octanewireless.com](http://www.octanewireless.com)



Smaller and lighter weight Unmanned Aerial Vehicles (UAVs) are increasingly being used for more complex communications and intelligence applications. To increase their loitering capability and persistence, Octane Wireless has developed a portfolio of agile, reliable antennas in different form factors for fixed wing and rotocopter unmanned aircraft. These high-performance radiators have been specifically designed and optimized to increase link performance and extend the flight range of drones and UAVs.



## Stub Antenna Model Numbers

Model Number	Frequency*	Typical Gain	Example Application	Height
SA-315-515	315 – 515 MHz	-3.3 dBi	Federal UHF	5.1"
SA-420-575	420 – 575 MHz	-5.5 dBi	Federal UHF	2.65"
SA-600-3800	600 – 3800 MHz	-2.0 dBi	Cellular/LTE-TDD/5G/Band 71	5.1"
SA-700-3000	700 – 3000 MHz	-2.0 dBi	Cellular/LTE/5G	2.65"
SA-700-3800	700 – 3800 MHz	-3.0 dBi	Cellular/LTE-TDD/5G	2.65"
SA-800-2700	800 – 2700 MHz	0.0 dBi	GSM/Cellular	2.65"
SA-900-930	900 – 930 MHz	2.0 dBi	ISM	2.65"
SA-1350-1390	1350 – 1390 MHz	2.3 dBi	Federal L-Band	5.1"
SA-1400-5900	1400 – 5900 MHz	1.0 dBi	Tri-band Video Receiver	2.65"
SA-1700-1900	1700 – 1900 MHz	3.0 dBi	L-Band Comms	2.65"
SA-1755-2270	1755 – 2270 MHz	2.0 dBi	L- & S-band Comms	2.65"
SA-2200-4900	2.2 – 2.3 / 4.4 – 4.9 GHz	5.0 dBi	S- & C-band Comms/5G	2.65"
SA-2200-5900	2.2 – 2.5 / 4.4 – 5.0 / 5.8 GHz	3.0 dBi	ISM, WiFi, Federal S- & C-band	2.65"
SA-2400/5800	2.2 – 2.5 / 5.0 – 6.0 GHz	2.2 dBi	WiFi	2.65"
SA-3000-10000	3000 – 10000 MHz	3.0 dBi	UWB	2.65"
SA-4400-5900	4400 – 5900 MHz	3.0 dBi	C-band Comms	2.65"



## Pole Mount Pigtail Antennas for Rotocopters



Frequency	Available Polarizations	Typical Gain	Model Number
225 - 1850 MHz	Vertical	1.6 dBi	Model numbers assigned for specific configurations requested
1600 - 5900 MHz	Vertical	3.0 dBi	
1350 - 1525 MHz	Horizontal & Vertical	5.0 dBi	
2025 – 2110 MHz	Horizontal	5.0 dBi	
2200 – 2500 MHz	Horizontal & Vertical	5.0 dBi	
2700 - 2900 MHz	Horizontal	5.0 dBi	
4400 – 5000 MHz	Horizontal & Vertical	5.1 dBi	
5000 – 5900 MHz	Horizontal & Vertical	5.1 dBi	

\*Contact Octane Wireless for customization. Specifications subject to change without notice



## Blade Antenna Model Numbers

Model Number	Frequency	Max Gain	Example Application	Height
AU-800-6000	800 – 6000 MHz	5.0 dBi	UAV Video Receiver/5G	5.1"
AU-1600-4400	1600 – 4400 MHz	3.1 dBi	Upper L- and S-band	2.6"



## Peel & Stick Appliqué Antenna Model Numbers

Model Number	Frequency*	Max Gain	Radiation Direction	Example Application	Size
AA-30-512	30 – 512 MHz	0.5 dBi	Near Omni	VHF Tactical Comms	13.4" x 10.2"
AA-30-512-L	30 – 512 MHz	1.0 dBi	Near Omni	VHF Tactical Comms	44.6" x 3.5"
AA-130-550-CTT	130 – 550 MHz	0.0 dBi	Near Omni	Covert Vehicle Comms	39.5" x 0.6"
AA-225-512	225 – 512 MHz	3.0 dBi	Near Omni	UHF Tactical Comms	18.6" x 3.5"
AA-225-6000	225 – 6000 MHz	5.7 dBi	Near Omni	ISR/Wideband Comms	13.4" x 10.2"
AA-350-450	350 – 450 MHz	0.0 dBi	Near Omni	TETRA	11.9" x 2.0"
AA-420-450	420 – 450 MHz	- 3.8 dBi	Near Omni	EPLRS	2.8" x 2.5"
AA-420-480	420 – 480 MHz	2.0 dBi	Near Omni	UHF Tactical Comms	11.3" x 4.5"
AA-430-600	430 – 600 MHz	2.0 dBi	Near Omni	UHF Tactical Comms	8.1" x 7.7"
AA-470-480	470 – 480 MHz	- 3.8 dBi	Near Omni	ISR and DF	2.8" x 2.5"
AA-800-900	800 – 900 MHz	0.0 dBi	Near Omni	Public Safety LMR	2.5" x 1.7"
AA-800-900/1800-1900	800 – 900 / 1800 – 1900 MHz	0.0 dBi	Near Omni	Quadband GSM	2.2" x 1.3"
AA-800-6000	800 – 6000 MHz	5.2 dBi	Near Omni	UAV Receiver/5G	4.9" x 2.0"
AA-1300-6000	1300 – 6000 MHz	4.0 dBi	Near Omni	Federal L-, S-, & C-band	3.0" x 1.2"
AA-1700-2200	1700 – 2200 MHz	4.0 dBi	Endfire	Upper L-band	2.9" x 4.0"
AA-1700-6000	1700 – 6000 MHz	3.1 dBi	Near Omni	Federal S- & C-band	2.5" x 1.4"
AA-2400-2500	2400 – 2500 MHz	5.0 dBi	Endfire	WiFi	2.1" x 2.5"
AA-3000-10000	3000 – 10000 MHz	3.4 dBi	Near Omni	UWB	0.75" x 1.5"
AA-5100-5900	5100 – 5900 MHz	5.0 dBi	Endfire	Federal C-band	0.9" x 1.0"