

communications solutions

Telemetry Antenna Series

The telemetry antennas help ground engineers and control room personnel acquire airborne and ground telemetry data. With over 55 years of antenna design and manufacturing experience, the suite of telemetry antennas developed by ARA can operate across a wide range of frequencies and environmental conditions. The wide range of bandwidth, sizes, and mounting options make these antennas suitable for air platforms and ground stations. These antenna designs function efficiently to monitor system telemetry over long distances for drones and Unmanned Aerial Vehicle (UAV) systems.

Antenna Type	Blade, Helix, Horn, Panel, Patch, Quad Helix, Reflector
Application	Military Communications, UAV / Robotics
Frequency Band	L (1 - 2 GHz), S (2 - 4 GHz), C (4 - 8 GHz), Ku (12 - 18 GHz)
Polarization	Circular, Dual Circular, Dual Linear, Left Hand Circular, Linear Adjustable, Linear Vertical, Manually Switchable Circular, Right Hand Circular, Vertical



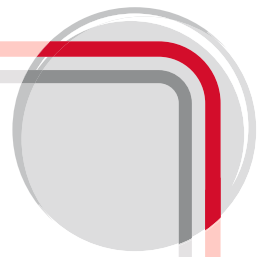
9525 Antenna Model
Frequency Range: 1.5 - 2.5 GHz

FEATURES

- Rugged Design
- Superior Performance
- Proven Endurance
- Made in the USA

Revised August 18, 2021

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Ground Models									
Model	Frequency (GHz)	Gain	VSWR Nominal	Axial Ratio	Beamwidth at Midband	Polarization	Power Handling	Dimensions	Antenna Type
0301-800	1.4 - 2.4	22.7 - 26.0 dBic	1.4:1	2.0 dB	8.4° Nominal	Dual Circular	50 W	50" x 29"	4ft Reflector
9525-825	1.5 - 2.5	18.3 dBi @ 1.7 GHz	1.9:1	-	17° Nominal	Dual Linear	50 W	24.12" x 12.46"	2ft Reflector
9525-830	1.5 - 2.5	18.3 dBic @ 1.7 GHz	1.5:1	2.0 dB	17° Nominal	Dual Circular	50 W	24.12" x 14.65"	2ft Reflector
9525-850	1.5 - 2.5	18.3 dBi @ 1.7 GHz	1.9:1	-	17° Nominal	Dual Linear	50 W	24.12" x 10.9"	2ft Reflector
9269-800	1.69 - 1.70	31.5 dBic	1.49:1	2.0 dB	4.5°	LHCP Feed RHCP System	60 W CW	96" x 32 1/4"	8ft Reflector
9339-810	2.2 - 2.3	10 dBic	1.8:1	2.5 dB	42°	RHCP	20 W	5" x 10.125"	Helix
9385-800	2.2 - 2.3	44 dBic	1.43:1	<1 dB	25°	RHCP	500 W	57 3/8" x 20"	10m Reflector
9409-800	L: 1.1 - 1.2 P: 2.3 - 2.8	L: 31.3 dBic P: 16.4 dBic	L: 1.36:1 P: 1.44:1	L: 1.5 dB P: 2.0 dB	L: 3.65° P: 19°	RHCP	100 W	41" x 41" x 60"	5m Reflector
8955-800B	2.3 - 2.5	24.1 dBic	1.5:1	2.0 dB Max	8.5°	Manually Switchable, Circular	50 W	48" x 31"	4ft Reflector
C0619-800	3.2 - 7.3	28 dBi	2.0:1	-	3.5°	Linear Vertical	50 W	48.41" x 34.33"	4ft Reflector
O101-800D	5.25 - 5.85	23 dBi	1.74:1	-	9°	Linear Vertical	20 W	12.97" x 12.97"	Panel
9859-800	5.4 - 5.9	17 dBi	1.8:1	-	E Plane = 86° H Plane = 5.4°	Linear Vertical	20 W	21.5" x 5.0" x .37"	Panel

Air Models									
Model	Frequency (GHz)	Gain	VSWR Nominal	Axial Ratio	Beamwidth at Midband	Polarization	Power Handling	Dimensions	Antenna Type
9632-800	4.0 - 4.2	14.0 dBi	1.5:1	4 dB	30° Nominal	Vertical	20 W	9.25" x 6.00"	Panel
9645-800	4.4 - 5.85	15.5 dBic	1.7:1	2 dB	45° Elevation 10° Azimuth	RHCP	50 W	9.5" x 10.75" x 2.92"	Quad Helix
9731-800	4.75 - 5.475	25 dBi	2.0:1	-	9°	Vertical	20 W CW	20" x 12 5/16"	20" Reflector
9766-820	5.25 - 5.85	12 dBi	1.49:1	-	45° Elevation 30° Azimuth	Vertical	50 W	5.53" x 3.97"	Horn
9778-800	5.25 - 5.85	18.2 dBi	1.67:1	-	30° Elevation 10° Azimuth	Vertical	50 W	11" x 5 7/8" x 2 1/4"	Panel
9767-800	7.25 - 7.75	6.3 dBic	1.5:1	4 dB	75°, Omni	LHCP	50 W	3 1/16" x 1/4"	Patch
O307-800	7.3 - 8.4	7 dBic	1.43:1	4 dB	30° Nominal	RHCP	20 W	1.7" x 0.34"	Patch
9345-800	10.95 - 12.75	34.5 dBi Min	1.6:1	-	2.4° Nominal	Linear Adjustable	500 W CW	7.86" x 24.13"	2 ft Reflector
9516-800	11.7 - 12.2	42.8 dBi	1.64:1	-	1.4° Nominal	Linear/ Circular-Adjustable	250 W	48" x 27 1/4"	4 ft Reflector
9506-800	14.0 - 14.5	-	1.5:1	-	1.6° Nominal	Linear Adjustable	250 W	40 1/4" x 16 13/16"	40" Reflector
O043-820	14.5 - 15.35	3 dBi	2.5:1	-	24° Omni	Vertical	50 W	1.38"	Blade



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