

Vehicular Communications Antenna Series

The Vehicular Communications Series of antennas are multiband, omnidirectional, vehicular-mounted antennas. For -10° to 10° in elevation and azimuthal variations, the gains are ± 1.5 dB.

The antenna is available with Universal Antenna Mount or a standard NATO 4.5-inch bolt pattern for easy mounting on military vehicles. The base of the antenna has an N-Type Female connector located at the center of the mount.

This antenna series is an environmentally qualified, Commercial Off The Shelf (COTS), TRL-8 (Technology Readiness Level) antenna. The rugged design qualifies the Oak Beam Test, involving 25 oak beam strikes to the midpoint of the antenna at 25 mph. ARA designs custom configurations for specific frequency band requirements on request. The antennas are available in CARC green, tan, or flat black finish.

Antenna Type	Omni
Application	Military Communications
Frequency Band	VHF (30 – 300 MHz), UHF (0.3 - 6 GHz)
Polarization	Right Hand Circular, Vertical



From left to right: **ARA-3545**, **ARA-1220**, **ARA-252**, **ARA-2219**

FEATURES

- Operates over wide frequency bands
- Single and multi-port options available
- Superior power handling
- Universal or NATO mounting options available
- Rugged design
- Multiple finishes available
- Made in the USA

Revised December 10, 2021

Vehicular Communications Antenna Series



Specifications

Model	Frequency Range	Gain	VSWR	Ports	Power	Height	Weight	Polarization
ARA-0332	30 to 88 MHz	3 dBi nominal	2.5:1	1	200 W CW	9.75 ft	10 lb	Vertical
ARA-0548P	225 to 400 MHz	+8 dBi (SAT) +3 dBi (LOS)	1.5:1 (SAT) 3.0:1 (LOS)	2	200 W CW	0.85 ft	2.75 lb	RHCP (SAT) Vertical (LOS)
ARA-252	225 to 2000 MHz	+2 dBi typical	2.0:1 nominal	1	125 W CW	45 in	6.75 lb	Vertical
ARA-1220	1200 to 2000 MHz	3.0 to 5.5 dBi	1.75:1 typical 2.25:1 max	1	100+ W CW	24 in	3.5 lb	Vertical
ARA-2219C	225 to 450 MHz	0 to 3 dBi	2.0:1 typical 2.5:1 max	2	150+ W CW	85 in	12 lb	Vertical
	1200 to 2000 MHz	1 to 5.5 dBi	1.75:1 typical 2.25:1 max					
ARA-2245	225 to 450 MHz	0 to 3.5dBi	2.0:1 typical 3.0:1 max	1	150 W CW	63 in	5 lb	Vertical
ARA-3925	30 to 88 MHz	-2 to +1 dBi	< 3.5:1	2	100 W CW	58 in	6 lb	Vertical
	225 to 450 MHz	0 to 3.5 dBi	< 2.5:1					
ARA-3545	350 to 450 MHz	2 dBi min	2.0:1 typical 3.0:1 max	1	100+ W CW	25 in	3 lb	Vertical
WDA-488	400 to 900 MHz	4.5 to 6 dBi	2.0:1 typical	1	175+ W CW	70 in	10 lb	Vertical
WDA-3018	30 to 88 MHz	-10 to -5 dBmp	3.0:1 typical	3	100+ W CW	85 in	12 lb	Vertical
	225 to 450 MHz	1.5 to 4.0 dBi	3.0:1 typical					
	1200 to 2000 MHz	2.5 to 5.0 dBi	2.5:1 typical					

This is not a comprehensive list. Please contact Sales to learn about our additional products available to meet your needs



8880 Gorman Road, Laurel, MD 20723 | 301-937-8888 | ara-inc.com

The data described herein may be subject to licensing under the International Traffic Arms Regulations (ITAR) 22 CFR Parts 120-130. This data sheet has been released into the public domain in accordance with these regulations. Specifications are subject to change without notice.