



sales@ara-inc.com



ARA-252 COMMUNICATIONS ANTENNA

The **ARA-252** antenna is a single-port, multiband, omnidirectional, vehicular-mounted antenna. The antenna has been designed for optimum gain from 225 to 450 MHz, 1350 to 1850 MHz and is perfect for UHF and WNW Software Defined Radio applications. The gain has been tuned for -10° to 10° in elevation and azimuthal variations are ± 1.5 dB. The antenna has been rated for 125 Watts CW over the complete band and does not require any tuning or ground plane for operation.

This antenna bolts to a standard Universal Antenna Mount or a NATO standard 4.5-inch bolt circle found on most military vehicles. The Type N Female connector is located in the base of the antenna in the center of the mount. This antenna is an environmentally qualified, Commercial Off the Shelf (COTS), TRL-8 (Technology Readiness Level) antenna. The rugged design has also passed the Oak Beam Test; this rigorous test involves 25 oak beam strikes to the mid point of the antenna at 25 miles per hour.

ARA

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FEATURES

- Weight: <6.75 lbs (3.0 kg)
- Height: 45 in (1092 mm)
- Diameter: 1.75 in (44.5 mm)
- Diameter (base): 5.5 in (89 mm)
- Finish: CARC Type III Green (optional Tan)
- Made in the USA 

Specifications	
Gain	+2 dBi Typical
Frequency	225 to 2000 MHz
Impedance	50 Ω
VSWR	2.0:1 Nominal
Power Handling	125 Watts CW
Port	J1
Antenna Connector	N-Type Female
Mount	NATO 4-Hole
Spring	>40,000 flexures at 60° 5,000 flexures at 90°



The data described herein is 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.

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