



ARA-252

Multi-Band, Single-Port
Communications Antenna

Creating Tomorrow's Antenna Technology Today

The **ARA-252** antenna is a single port, multi-band, omni-directional, 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.

Electrical Specifications

Frequency (MHz): 225 - 2000
VSWR: 2.0:1 nominal
Gain +2 dBi typical
Power:..... 125 Watts CW
Input Impedance: 50 Ω
Port: J1
Connector: Type N Female

Mechanical Specification

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)
Mount NATO 4-hole
Finish CARC Type III Green (optional Tan)
Spring >40,000 flexures at 60°
Spring 5,000 flexures at 90°



Contact us today to find out more about this antenna and the completed qualification programs today!

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