# SAS-256

ANTENNA RESEARCH ASSOCIATES

## Communications Solutions

The **SAS-256** is a three-band antenna with a broadband monopole element designed to operate from 20 to 520 MHz. The second band uses a broadband dipole that operates from 500 to 1000 MHz. The third band uses a broadband bicone to operate from 1000 to 6000 MHz. It is designed in compliance with MIL-STD-810 environmental specifications.

The antenna is mounted in a sealed dielectric radome to offer mechanical stability and isolation from environmental hazards, including an Oak Beam impact test. The SAS-256 will handle over 150 W CW power. This antenna also offers low VSWR. The SAS-256 antenna uses a single-spring mount with the NATO four-bolt pattern.

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|---|---|
| **Antenna Type** | Omni |
| **Application** | Jamming, Spectrum Operations |
| **Frequency Band** | VHF (30 to 300 MHz), UHF (0.3 to 6 GHz) |
| **Polarization** | Linear vertical |

### Specifications:

| | | | |
|---|---|---|---|
| Frequency | **Port 1:** 20 to 520 MHz | **Port 2:** 500 MHz to 1 GHz | **Port 3:** 1 to 6 GHz |
| Gain (nominal) | **Port 1:** -2 dBi | **Port 2:** 0 dBi | **Port 3:** -2 dBi |
| Impedance | 50 Ω nominal | | |
| VSWR (nominal) | **Port 1:** 3.0:1 | **Port 2:** 1.5:1 | **Port 3:** 2.0:1 |
| Pattern | Omni in azimuth | | |
| Operating Temp. | -33° to +55°C | | |
| Storage Temp. | -40° to +71°C | | |
| Power Handling | **Port 1:** 150 W CW, 300 W peak<br>**Port 2:** 100 W CW<br>**Port 3:** 1 to 3 GHz: 100 W CW; 3 to 6 GHz: 50 W CW | | |
| Antenna Connectors | N Female (3) | | |
| Mount | NATO four-hole mount | | |
| Weight | 18 lbs (8.2 kg) | | |
| Dimensions | 4" dia x 67" H | | |

### Features:

- Rugged design
- Multi-port model
- Reliable operation in harsh environments
- Superior power handling
- Made in the USA





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