

SAS-200 Series Antenna

The SAS-200 series antennas are dual-band omnidirectional antennas with a discone low-band construction, and either a conical monopole for the 3 GHz configuration or vertical biconical for the 6 GHz and 18 GHz configurations. These antennas are available with a diplexed output option or high and low-band output. Designed for high vibration (HV) and high power (HP) offroad vehicular-mounted applications.



The SAS-200 series is available as passive units, or with preamplifier options and RF bypass capability. When active, the AC powered PFS-SAS is suggested to power and control the SAS-230 and SAS-260 configurations. This series can be used for either spectrum monitoring/surveillance or military and security jamming.

Specifications and Configurations

	SAS-230	SAS-260	SAS-218
Frequency	Low band: 20 to 1000 MHz High band: 800 to 3000 MHz	Low band: 20 to 1000 MHz High band: 1000 to 6000 MHz	Low band: 20 to 1000 MHz High band: 1 to 18 GHz
Polarization	Vertical	Vertical	Vertical
Gain	125 to 1000 MHz: -5 to +3 dBi High band: -1 to +3 dBi	125 to 1000 MHz: -5 to +3 dBi High band: -1 to +3 dBi	125 to 1000 MHz: -5 to +3 dBi High band: -1 to +3 dBi
Impedance	50 Ω	50 Ω	50 Ω
VSWR* (low band)	2.0:1 typical 70:1 max	2.0:1 typical 70:1 max	2.0:1 typical 70:1 max
VSWR* (high band)	1.5:1 typical 3.0:1 max	2.0:1 typical 3.0:1 max	2.0:1 typical 3.0:1 max
Pattern	Omni in Azimuth	Omni in Azimuth	Omni in Azimuth
Operating Temperature	-32° to 55° C	-32° to 55° C	-32° to 55° C
Storage Temperature	-47° to 85° C	-47° to 85° C	-47° to 85° C
Power Handling	Low Band: 300+W CW High Band: 270W CW	Low Band: 150W CW High Band: 35W CW	Low Band: 150W CW High Band: 15W CW
Shock Handling**	20 g	20 g	20 g
Antenna Connectors	Type-N Female	Type-N Female	Type-N Female

*VSWR figures shown are approximate and can change based on antenna mounting

**Configurations with shock handling up to 40 g are available

PFS-SAS DC Power Supply

This unit is a linear DC power supply that can be configured for either 120V AC or 240V AC, single-phase, 50/60 Hz input power. The output from this supply is 18V DC. This unit has been designed to provide the required input power for the bypass switches and low-noise amplifiers used in the SAS-230 and SAS-260 active surveillance antennas. There are separate switches to control the low and high bands of the antennas separately.



PFS-SAS Specifications

Size:	7.4" x 7.4" x 2.6" (188 mm x 188 mm x 67 mm)
Weight:	3.5 lbs (1.6 kg)
Power Input:	85 to 264V AC 50/60 HZ
Output Power:	+18V DC at power supply (+15V DC minimum required at antenna input)
Output Control:	(Both bands) TTL
Output Connector:	MS3116F12-10P

SAS-200 Antenna Features

- 18" dia x 18" tall
- ABS radome
- 14 to 21 lbs
- Made in the USA
- Available in Black, OD Green, Desert Tan, White. Other colors available upon request.

