



IFF Antenna Model A006

Air Traffic Control Antennas

Antenna Associates' A006 Antenna is a configurable 6-sector MIMO/ESA Antenna for ADS-B Applications. It offers outstanding ADS-B RF performance in a compact, durable and lightweight package. Scanning each sector allows the antenna significantly more gain over an Omni Directional Antenna of the same size. The A006 Antenna also includes a GPS (L1/L2) Antenna.

The A006 Antenna is available with either one or six outputs. The single output configuration scans the (6) sixty degree sectors at a continuous preprogrammed rate and scheme determined by the customer.

The MIMO configuration of the A006 Antenna is available as well. This configuration has six RF outputs. With this configuration the customer controls the scanning of the six sectors of the antenna with their own switching network. It can also be used with multi-channel ADS-B Systems.



- Monitoring Sectors vs. Omni Decreases the likeliness of colliding signals
- Rugged Construction ideal for vehicle mounting
- Compatible with single or multi-channel ADS-B Receivers
- MIMO offers versatile sector outputs and GPS offers self locating capabilities

Revision F



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Technical Specifications

A006 Antenna

Electrical:	
Frequency band	1090 ± 10 MHz 978 MHz (Reduced Gain)
Polarization	Vertical
Peak Gain @ 1090 MHz	5.0 dBiL Typ.
Peak Gain w/LNA	27.5 dBiL Typ.
Azimuth -3 dB B.W.	133 Deg. Typ.
Elevation -3 dB B.W.	52 Deg. Typ.
GPS	L1 & L2
VSWR 1090 MHz	< 2.0 : 1.0
Power Rating	400W Peak, 5W Avg.
Impedance	50 Ohm

Antenna Output Options	A006-1 Model
RF Output	(1) N-Type Female & (1) SMA Female
Input Powers Required	5V DC, 150mA Preprogrammed customer defined rate and scheme

Antenna Output Options	A006-6 Model
RF Output	Ampenol PN:
	TV07RGW-25-8P(LC)

Environmental		Physical	
Temperature	-55° to +85° C	Weight	17 lbs (7.71 kg)
Relative Humidity	5% to 100%	Height	24.69 in (62.71cm)
Rain	100 mm/hr	Diameter	7.50 in (19.05 cm)
Altitude	-300 to 15,000 Feet		
Wind	100 mph	Finish	Polyurethane MIL-PRF-85285
Ice Loads	½ in. radial ice	Colors	NATO Green, FAA Orange, White
Hail	½ in. dia. At 60 ft/sec		
		Mounting Configuration	Mast Mount (Diameter)
			1 ½ " IPS Heavy Wall Pipe
			(1.900 in OD)