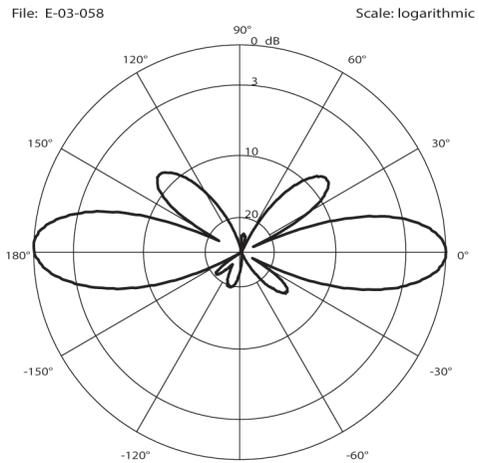
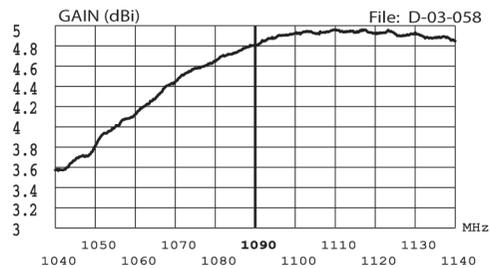


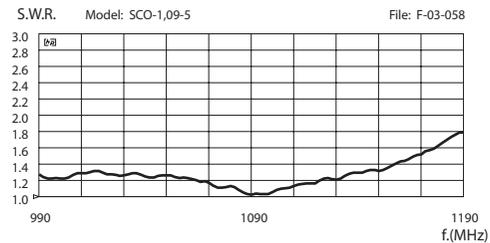
### Typical Radiation Pattern in E-plane at 1090 MHz



### Typical Gain Diagram vs. Frequency



### Typical S.W.R Response



Data Sheet

# A3 ADS-B Antenna 1090 MHz

V4A Type  
for Extreme Environment

MIL-STD-810G qualified



This document describes the jetvision [A3 ADS-B 1090 MHz Antenna](#) with its technical data and mounting.  
Version 1.0.0 - 04.2017



Günter Köllner Embedded Development GmbH  
Am Rain 24  
85256 Vierkirchen, Germany  
Phone +49 8139.9961909 - Fax +49 8139.9961906  
www.jetvision.de support@jetvision.de



# Specifications

Electrical Data	A3 ADS-B 1090 MHz V4A Steel
Type	Ground plane colinear 3x 1/2 λ
Design Frequency	1090 MHz (ADS-B system)
Impedance	50 Ω
Radiation (H-plane)	360° omnidirectional
Radiation (E-plane)	Beamwidth @ -3 dB: 23.8°
Polarization	Linear vertical
Gain	4.8 dBi
Maximum Transmit Power	10 W CW, 500 W peak
Grounding Protection	All metal parts are DC-grounded, the inner conductor shows an open circuit
Certification	MIL-STD-810G, method 509.5 (48/48h)
Connector	N-female, gold plated central pin

Mechanical Data	A3 ADS-B 1090 MHz V4A Steel
Housing & Radome Material	Fiberglass, chromed brass, PCB
Fields of Application	Off shore, seawater resistant
Bracket, Hardware Material	V4A steel, V4A steel
Wind Load / Resistance	18 N @ 150 Km/h / 200 Km/h
Wind Surface	0.013 m <sup>2</sup>
Height (approx.)	555 mm
Weight (approx.)	With bracket: 925 gr. Without bracket: 325 g
Installation Type	Mast: Ø 20-52 mm
Part Number	<b>67305</b>



## High Performance ADS-B Equipment

Professional ADS-B Receiver, MLAT-Server antennas and accessories

Own development, special solutions and more...

# Mounting



Fixing Bracket  
V4A Steel

Fixing Bracket Part List	
Quantity	Description
1	Mounting bracket V4A
2	Mounting lug V4A
2	M8x120 bolt V4A
6	M8 hexagonal nut V4A
2	M8 washer V4A
4	Spring lock washer V4A

Fixing Bracket Materials & Dimensions	
Materials	V4A steel
Hardware	V4A steel
Dimensions	120 x 80 x 30 mm
Weight	600 g

Bottom View with Antenna Socket

