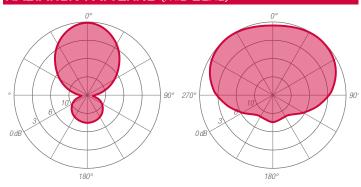




ANTENNA FEATURES

- Dipole antenna.
- Vertical polarization.
- Broadband 174÷230 MHz.
- Omnidirectional radiation pattern.
- Stainless steel or aluminium version.
- Analogue/Digital Service.

RADIATION PATTERNS (Mid Band)

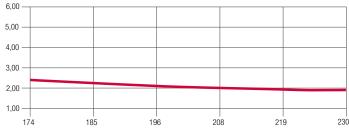


Е	-	Pla	ne

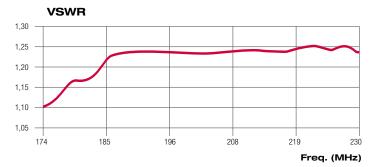
H - Plane

ELECTRICAL DATA WORKING BAND: 174 - 230 MHz BANDWIDTH: VHF band III GAIN: 2.2 dBd (4.5 dBi) VSWR: \leq 1.25:1 (-19 dB) POLARIZATION: Vertical IMPEDANCE: 50 Ohm balanced E-Plane - 75° HALF POWER BEAMWIDTH: H-Plane - 203° LIGHTNING PROTECTION: All metal parts DC grounded including inner conductors AVAILABLE VERSION AND CODE: ADB0104211- DIN 7/16 female - max 2000W rms ADB0104210 - EIA 7/8" - max 3500W rms ADB0104231- DIN 7/16 female - max 2000W rms ADB0104230- EIA 7/8" - max 3500W rms

GAIN (dB)



Freq. (MHz)



IVIECHAINICAL	DAIA
MATERIALS:	Aluminium (version ABP010421X)
	Stainless steel (version ABP010423X)
	Hot dip galvanized steel bracket and bolts
MOUNTING:	Directly on supporting structure
MOUNTING BRACKETS:	Included for Ø40÷114mm pipe (Ø1 5/8" - 4")
ICING PROTECTION:	Antenna body covered by ABS radome
TREATMENTS:	Antenna body military norms treatement
	(MIL-C-5541 ver. ADB010421X)
	Military norms treatement (MIL-C-5541) internal lines
	Silver plated connector
PRESSURIZATION:	No
ANTENNA DIMENSIONS:	670x490x160 mm (26.4x19.3x6.3 in)
ANTENNA WEIGHT:	4.3 kg (9.5 lb) (version ADB010421X)
	8.0 kg (17.63 lb) (version ADB010423X)
BRACKET WEIGHT:	2.4 kg (5.3 lb)
WIND SURFACE:	0.11m ² (1.18ft ²) front - 0.19m ² (2.04 ft ²) side
WIND LOAD	0.08 kN front - 0.19 kN side
(160 km/h and 30°C)	
SURVIVAL WIND:	220 km/h (136.7 mph)
PACKING DIMENSIONS:	Box 800x800x200mm - 10kg
	(31.5x31.5x7.8 in - 22.04lb)

Specification are subject to change without notice





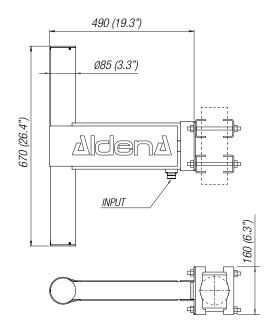
ARRAY FEATURES

- Directional or custom patterns
- Equal or unequal power distribution system
- Configurable for specific azimut and elevation pattern
- Suitable for multiplexing many channels

50 ohm EIA flange according to system power rating The antenna system can accept any power according to requirements ≤ 1.17 in the operating channels or
The antenna system can accept any power according to requirements 1.17 in the operating channels or
according to requirements ≤ 1.17 in the operating channels or
≤ 1.17 in the operating channels or
, ,
≤ 1.25 throughout the frequency range
/ertical
Refer to table
Any type according to requirement
Null fill, beam tilt and special requirements to order
Antenna components and feed harnesses can be optimized for channels of interest.

ARRAY MECHANICAL DATA		
HEIGHT OF ARRAY	Subject to number of bays	
TOTAL NET WEIGHT	Refer to table	
WIND LOAD	Refer to table	
PRESSURIZABLE	No	
MOUNTING HARDWARE	Optional mounting for side mount configuration	

ANTENNA DIMENSIONAL DETAILS

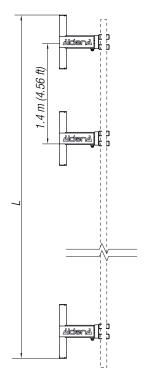


OPTIONS & SEF	RVICES
PATTERN DESIGN	Custom azimuth and elevation (beam tilt and null fill)
	patterns can be designed to meet specific
	protection/coverage requirements
PATTERN CERTIFICATION	Proof-of-performance factory test and
	pattern measurements on ALDENA test plan area
MOUNTING HARDWARE	Turn-key antenna delivering
	Tower top/side spine
	Special hardware/brackets
TRANSMISSION LINE	Transmission line system design and layout
COMBINERS/FILTERS	Combiners/Filters to suit requirements can be supplied
CALCULATION SERVICES	Coverage/interferfence simulations
	EM Near Field control and reduction (Environmental
	impact studies)
ON-SITE SERVICES	Site Survey and Inspection
	Installation/commissioning and supervisioning
	Drive test & EM Field strength measurements
	After sales maintenance
TRAINING	Techical training certification and consultancy

ARRAY TECHNICAL DATA ANTENNA LOAD(3 2 5.5 3.5 25 (55.1) 2.0 (6.6) 0.38 8.7 7.4 60 (132.3) 4.8 (15.7) 0.76 4 10.5 95 (209.4) 7.6 (24.9) 6 11.2 1.14 8 11.8 15.1 130 (286.6) 10.4 (34.12) 1.52 13.6 198 (436.5) 2.28 12 22.9 16.0 (52.5) 3.04 16 14.9 30.9 270 (595.2) 21.6 (70.9) 1

- (1) Gain data is relative to half-wave dipole. Values given are nominal and assume standard harness configurations
- Gain will vary depending in specific feed system, null fill and beam tilt.

 (2) Referred to Aluminum model ADB010471X and without mounting hardware
- (3) 160 km/h (100 mph) wind and 30°C (86°F) air temperature (L) Total Antenna Height.



Total Antenna Height (L) is subject to change according to requirement. Custom designed antennas meeting special requirements such as specific azimuthal pattern, different gains and custom power input are available upon request

Specification are subject to change without notice