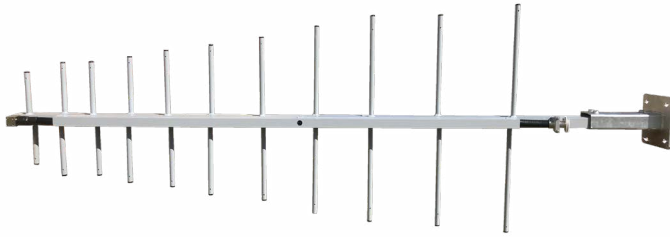
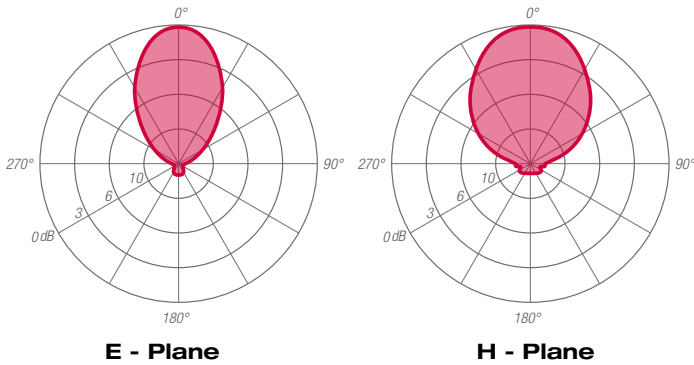


## ANTENNA FEATURES

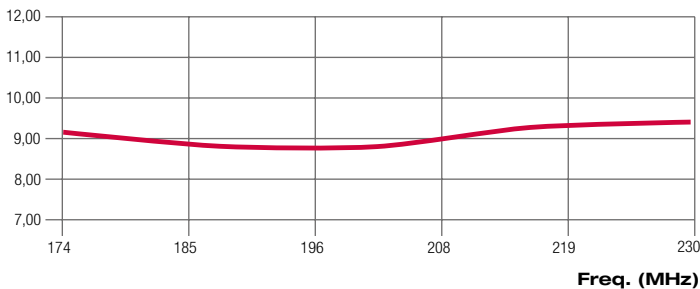
- Log-periodic 11 elements 9 dBd gain.
- Vertical or horizontal polarization.
- Broadband 174÷230 MHz.
- Directional radiation pattern.
- Analogue/Digital Service.



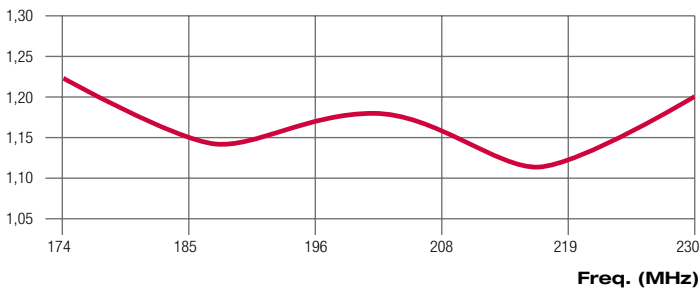
## RADIATION PATTERNS (Mid Band)



## GAIN (dB)



## VSWR



## ELECTRICAL DATA

WORKING BAND:	174 - 230 MHz
BANDWIDTH:	VHF band III
GAIN:	9 dBd (11.2 dBi)
VSWR:	≤ 1.22:1 (-20 dB)
POLARIZATION:	Linear (Vertical or Horizontal)
IMPEDANCE:	50 Ohm balanced
HALF POWER BEAMWIDTH:	E-Plane - 50° H-Plane - 68°
LIGHTNING PROTECTION:	All metal parts DC grounded including inner conductors
AVAILABLE VERSION AND CODE:	ALP1104711 - DIN 7/16 female - max 2000W rms ALP1104712 - EIA 7/8" - max 3000W rms

## MECHANICAL DATA

MATERIALS:	Aluminium Hot dip galvanized steel bracket and bolts
MOUNTING:	Directly on supporting structure
MOUNTING BRACKETS:	Included for Ø40÷114mm pipe (Ø1 5/8" - 4")
TREATMENTS:	Powder painted elements and body grey color - RAL 7001 Silver-plated lines and connector
PRESSURIZATION:	No
ANTENNA DIMENSIONS:	2630x900x117 mm (103.5x35.43x4.6 in)
ANTENNA WEIGHT:	14 kg (30.8 lb)
BRACKET WEIGHT:	12 kg (26.4 kg)
WIND SURFACE:	0.02m <sup>2</sup> (0.21 ft <sup>2</sup> ) front - 0.35m <sup>2</sup> (3.75 ft <sup>2</sup> ) side
WIND LOAD (160 km/h and 30°C)	0.013 kN front - 0.52 kN side
SURVIVAL WIND:	220 km/h (136.7 mph)
PACKING DIMENSIONS:	Antenna box 2700x1100x220 mm - 80kg (106.3x43.3x8.6 in - 176.3lb) Bracket box 360x310x400 mm - 32kg (12.2x14.2x15.7 inch - 70.5 lb)
SPECIAL FEATURES:	Mounting brackets for slant polarization (Cod. XSTLOG-ROT) Mounting brackets for parallel arrays (Cod. XSTLOG-PER) Safety rope in parafil <sup>®</sup> & stainless steel turnbuckle (Cod. XPAR & XTEN1.5T)

Specification are subject to change without notice



### ARRAY FEATURES

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

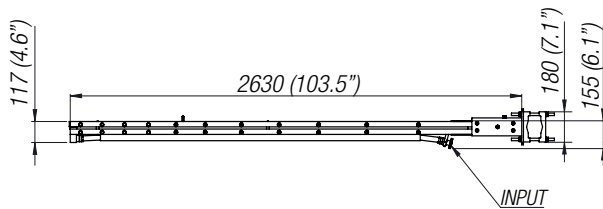
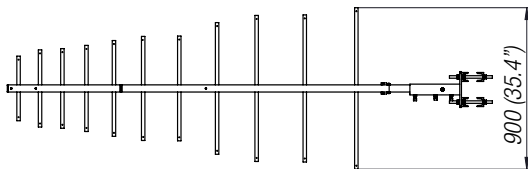
### ARRAY ELECTRICAL DATA

FREQUENCY RANGE	174 ÷ 230 MHz
IMPEDANCE	50 ohm
CONNECTOR	EIA flange according to system power rating
POWER RATING	The antenna system can accept any power according to requirements
VSWR	≤ 1.18 in the operating channels or ≤ 1.23 throughout the frequency range Antenna system VSWR value also depending from the supporting structure
POLARIZATION	Vertical or Horizontal
GAIN	Refer to table
HORIZONTAL PATTERN	Any type according to requirement
VERTICAL PATTERN	Null fill, beam tilt and special requirements to order
OTHER FEATURES	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

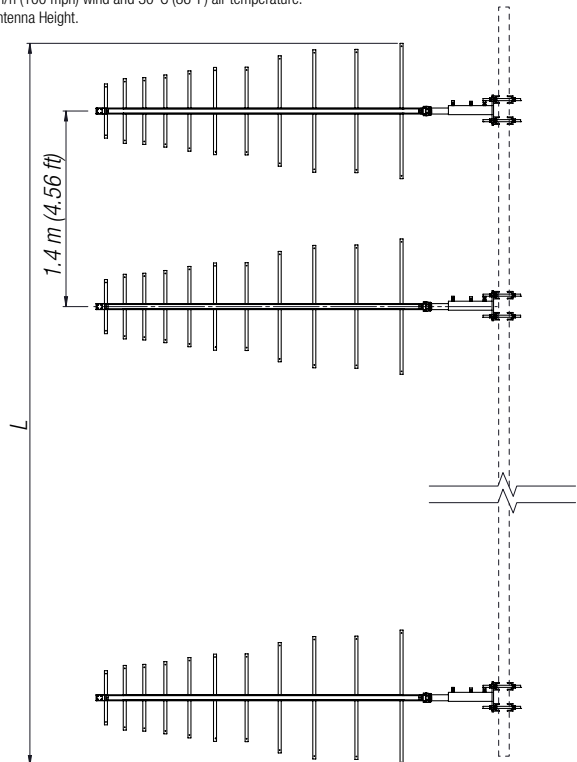
### ANTENNA DIMENSIONAL DETAILS



### ARRAY TECHNICAL DATA

BAYS	PANELS PER BAY	GAIN <sup>(1)</sup> dB	GAIN TIMES <sup>(1)</sup>	WEIGHT <sup>(2)</sup> kg (lb)	ANTENNA HEIGHT <sup>(L)</sup> m (ft)	WIND LOAD <sup>(3)</sup> kN
2	1	10.9	12.3	69 (152.1)	2.4 (7.9)	1.04
4	1	13.7	24.4	127 (279.9)	3.2 (10.5)	2.08
6	1	15.3	33.9	186 (410.0)	8.0 (26.2)	3.12
8	1	16.6	45.7	206 (454.1)	10.8 (35.4)	4.16
12	1	18.3	67.6	304 (670.2)	16.4 (53.8)	6.24
16	1	19.5	89.1	245 (540.1)	22.0 (72.2)	8.32

- (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.  
Gain data is relative to array in vertical polarization.
- (2) Without mounting hardware.
- (3) 160 km/h (100 mph) wind and 30°C (86°F) air temperature.
- (L) Total Antenna Height.



Note:  
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.

### OPTIONS & SERVICES

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/interference simulations EM Near Field control and reduction (Environmental impact studies)
ON-SITE SERVICES	Site Survey and Inspection Installation/commissioning and supervising Drive test & EM Field strength measurements After sales maintenance
TRAINING	Technical training certification and consultancy

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