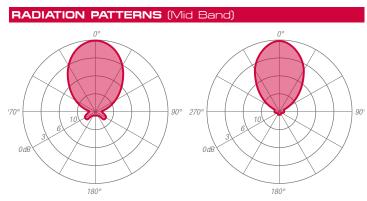


ANTENNA FEATURES

- Double dipole antenna panel.
- Circular, Elliptical, Horizontal, Vertical polarization.
- Broadband 87.5÷108 MHz.
- Directional radiation pattern.
- Demountable.
- Pressurizable.
- Aluminium or hot dip galvanized steel version.

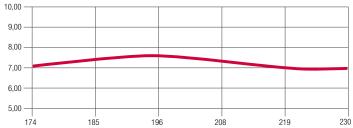


ELECTRICAL DATA	
WORKING BAND:	87.5 - 108 MHz
BANDWIDTH:	VHF - Band FM
GAIN:	3 dBd (5.2 dBi)
VSWR:	< 1.19:1 (-21.23 dB)
POLARIZATION:	Mixed, circular, vertical, horizontal
IMPEDANCE:	50 Ohm balanced
HALF POWER BEAMWIDTH:	Vertical component: E-Plane - 79° - H-Plane - 62°
	Horizontal component: E-Plane - 63° - H-Plane - 119°
LIGHTNING PROTECTION:	All metal parts DC grounded
	including inner conductors
AVAILABLE VERSION AND CODE:	APX0202510 - 2x EIA 7/8" - max 2x 2500W rms
	APX0202520 - 2x EIA 7/8" - max 2x 2500W rms

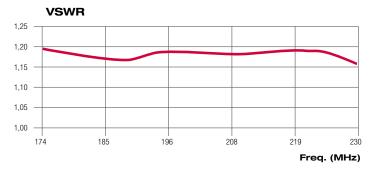
E - Plane Horizontal component

H - Plane Vertical component

GAIN (dB)



Freq. (MHz)



MECHANICAL	DATA
MATERIALS:	Reflecting grid in Hot dip galvanized st (APX0202520 version)
	Reflecting grid in aluminum (APX0202510 version)
MOUNTING:	Directly on supporting structure via Ø11 holes
MOUNTING BRACKETS:	Optional (cod. XZACP) for Ø60-114mm (2.36"- 4+1/2") mast
ICING PROTECTION:	Dipoles covered by Fiberglass radome
TREATMENTS:	Dipoles and antenna body military norms treatement
	(MIL-C-5541)
	Reflecting grid in Hot dip galvanized st (APX0202520 version)
	Reflecting grid in aluminum (APX0202510 version)
	Silver-plated lines and connector
ANTENNA DIMENSIONS:	2790x2000x890 mm (109.8x78.7x35.1 in)
WEIGHT:	80 kg (176.3 lb) (APX0202520 version)
	50 kg (110.2 lb) (APX0202510 version)
WIND SURFACE:	1.25 m² (13.4 ft²) front - 0.36 m² (3.8 ft²) side
WIND LOAD	1.88 kN front - 0.47 kN side
(160 km/h and 30°C)	
SURVIVAL WIND:	220 km/h (136.7 mph)
PACKING DIMENSIONS:	Dipoles: box 1100x300x300
	(43.3x11.8x11.8 in)
	Reflecting grid: box 2200x1200x135
	(86.6x47.2x5.3 in)
	APX0202520: 110 kg (242.5 lb)
	APX0202510: 80 kg (110.2 lb)

Specification are subject to change without notice



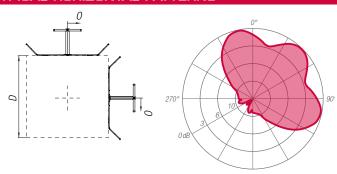


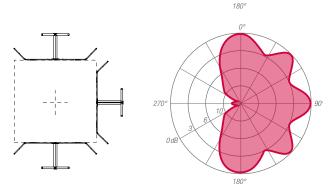
ARRAY FEATURES

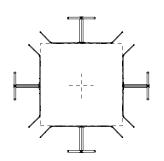
- Omnidirectional o directional patterns
- Equal or unequal power distribution system
- Configurable for specific azimut and elevation pattern
- Suitable for multiplexing many channels

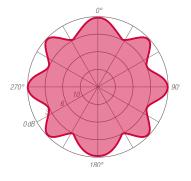
ARRAY ELECTRIC	CAL DATA
FREQUENCY RANGE	87.5 ÷ 108 MHz
IMPEDANCE	50 ohm
CONNECTOR	EIA flange according to system power rating
POWER RATING	The antenna system can accept any power
	according to requirements
VSWR	≤ 1.17 in the operating channels or
	≤ 1.25 throughout the frequency range
POLARIZATION	Mixed, circular, vertical, 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.

TYPICAL HORIZONTAL PATTERNS









ARRAY MECHANICAL DATA			
HEIGHT OF ARRAY	Subject to number of bays		
TOTAL NET WEIGHT	Refer to table		
WIND LOAD	Refer to table		
PRESSURIZABLE	Yes		
MOUNTING HARDWARE	Optional mounting spine for top/side mount configuration		

ARRA	Y TECH	HNICAL	_ DATA	4		
BAYS	PANELS PER BAY	GAIN ⁽¹⁾ dB	GAIN TIMES ⁽¹⁾	WEIGHT ⁽²⁾ kg (lb)	antenna Height ^(L) m (ft)	WIND Load ⁽³⁾ kn
2	1	6.0	3.98	128 (282.2)	4.9 (16.0)	3,76
4	1	9.0	7.94	253(557.7)	10.3 (33.7)	7,52
6	1	10.8	12.02	397 (875.2)	15.7 (51.5)	11,28
8	1	12.0	15.85	519 (1144.2)	21.1 (69.2)	15,04
1	2	0.3	1.07	128 (282.2)	2.2 (7.2)	3,44
2	2	3.3	2.14	253 (557.7)	4.9 (16.0)	4,71
4	2	6.4	4.37	519 (1144.2)	10.3 (33.7)	9,43
6	2	8.1	6.46	776 (1710.8)	15.7 (51.5)	14,14
8	2	9.4	8.71	1025 (2258.7)	21.1 (69.2)	18,85
1	3	-0.3	0.93	191 (421.1)	2.2 (7.2)	2,83
2	3	2.7	1.86	397 (875.2)	4.9 (16.0)	5,66
4	3	5.7	3.72	776 (1710.8)	10.3 (33.7)	11,33
6	3	7.5	5.62	1191 (2625.7)	15.7 (51.5)	2,83
8	3	8.7	7.41	1552 (3421.5)	21.1 (69.2)	5,66
1	4	0.6	1.15	253 (557.7)	2.2 (7.2)	11,33
2	4	2.5	1.78	519 (1144.2)	4.9 (16.0)	22,66
4	4	5.5	3.55	1025 (2258.7)	10.3 (33.7)	7.6
6	4	7.2	5.25	1552 (3421.5)	15.7 (51.5)	11.4
8	4	8.5	7.08	2479 (5465.2)	21.1 (69.2)	15.2

- (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 in relative to array in horizontal polarization.

 (2) Referred to Aluminum model APX0202510 and without mounting hardware.
- (3) 160 km/h (100 mph) wind and 30°C (86°F) air temperature. (L) Total Antenna Height.

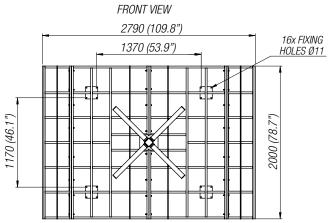
Antenna Distance (D) and Antenna Offset (O) are subject to change according to requirement. Custom designed antennas meeting special requirements such as specific azimuthal pattern, different gains and custom power input are available upon request.

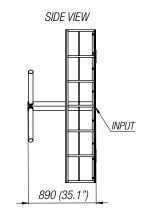
Specification are subject to change without notice

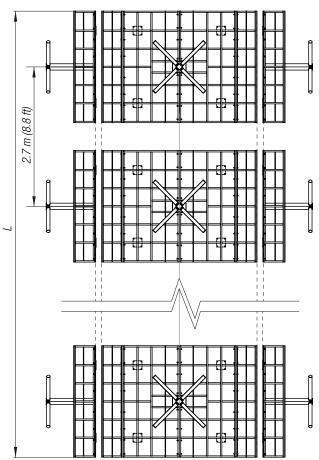


ANTENNA DIMENSIONAL DETAILS

ARRAY VERTICAL HEIGHT







Note: Total Antenna Height (L) is subject to change according to requirement.

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/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		

Specification are subject to change without notice