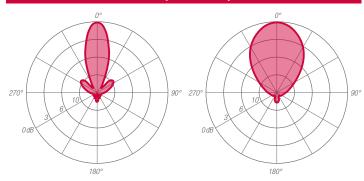




ANTENNA FEATURES

- Panel antenna 10.5 dBd gain.
- Vertical polarization.
- Broadband 470÷862 MHz.
- Directional radiation pattern.
- Designed for digital and/or analogue services.
- Pressurizable.

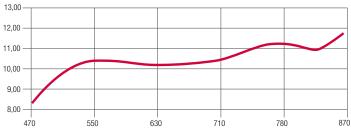
RADIATION PATTERNS (Mid Band)



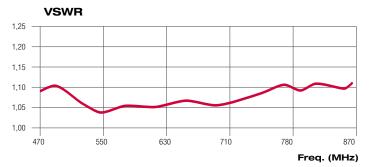
E - Plane	ne
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H - Plane

GAIN (dB)



Freq. (MHz)



WORKING BAND: 470-862 MHz BANDWIDTH: UHF IV/V band GAIN: 10.5 dBd (12.8 dBi) VSWR: ≤ 1.11:1 (-25.6 dB) POLARIZATION: Vertical IMPEDANCE: 50 Ohm balanced HALF POWER BEAMWIDTH: E-Plane - 28° H-Plane - 64° H-Plane - 64° LIGHTNING PROTECTION: All metal parts DC grounded including inner conductors AVAILABLE VERSION AND CODE: ATU0807420V - EIA 7/8" - max 2500W rms ATU0807421V - DIN 7/16" female - max 1000W rms ATU0807422V - N female - max 400W rms		ELECTRICAL DATA	
GAIN: 10.5 dBd (12.8 dBi) VSWR: ≤ 1.11:1 (-25.6 dB) POLARIZATION: Vertical IMPEDANCE: 50 Ohm balanced HALF POWER BEAMWIDTH: E-Plane - 28° H-Plane - 64° LIGHTNING PROTECTION: All metal parts DC grounded including inner conductors AVAILABLE VERSION AND CODE: ATU0807420V - EIA 7/8" - max 2500W rms ATU0807421V - DIN 7/16" female - max 1000W rms	•	WORKING BAND:	470-862 MHz
VSWR: ≤ 1.11:1 (-25.6 dB) POLARIZATION: Vertical IMPEDANCE: 50 Ohm balanced HALF POWER BEAMWIDTH: E-Plane - 28° H-Plane - 64° LIGHTNING PROTECTION: All metal parts DC grounded including inner conductors AVAILABLE VERSION AND CODE: ATU0807420V - EIA 7/8" - max 2500W rms ATU0807421V - DIN 7/16" female - max 1000W rms		BANDWIDTH:	UHF IV/V band
POLARIZATION: Vertical IMPEDANCE: 50 Ohm balanced HALF POWER BEAMWIDTH: E-Plane - 28° H-Plane - 64° LIGHTNING PROTECTION: All metal parts DC grounded including inner conductors AVAILABLE VERSION AND CODE: ATU0807420V - EIA 7/8" - max 2500W rms ATU0807421V - DIN 7/16" female - max 1000W rms		GAIN:	10.5 dBd (12.8 dBi)
IMPEDANCE: 50 Ohm balanced HALF POWER BEAMWIDTH: E-Plane - 28° H-Plane - 64° LIGHTNING PROTECTION: All metal parts DC grounded including inner conductors AVAILABLE VERSION AND CODE: ATU0807420V - EIA 7/8" - max 2500W rms ATU0807421V - DIN 7/16" female - max 1000W rms		VSWR:	≤ 1.11:1 (-25.6 dB)
HALF POWER BEAMWIDTH: E-Plane - 28° H-Plane - 64° LIGHTNING PROTECTION: All metal parts DC grounded including inner conductors AVAILABLE VERSION AND CODE: ATU0807420V - EIA 7/8" - max 2500W rms ATU0807421V - DIN 7/16" female - max 1000W rms		POLARIZATION:	Vertical
H-Plane - 64° LIGHTNING PROTECTION: All metal parts DC grounded including inner conductors AVAILABLE VERSION AND CODE: ATU0807420V - EIA 7/8" - max 2500W rms ATU0807421V - DIN 7/16" female - max 1000W rms		IMPEDANCE:	50 Ohm balanced
All metal parts DC grounded including inner conductors AVAILABLE VERSION AND CODE: ATU0807420V - EIA 7/8" - max 2500W rms ATU0807421V - DIN 7/16" female - max 1000W rms	•	HALF POWER BEAMWIDTH:	E-Plane - 28°
including inner conductors AVAILABLE VERSION AND CODE: ATU0807420V - EIA 7/8" - max 2500W rms ATU0807421V - DIN 7/16" female - max 1000W rms			H-Plane - 64°
AVAILABLE VERSION AND CODE: ATU0807420V - EIA 7/8" - max 2500W rms ATU0807421V - DIN 7/16" female - max 1000W rms		LIGHTNING PROTECTION:	All metal parts DC grounded
ATU0807421V - DIN 7/16" female - max 1000W rms			including inner conductors
		AVAILABLE VERSION AND CODE:	ATU0807420V - EIA 7/8" - max 2500W rms
ATU0807422V - N female - max 400W rms			ATU0807421V - DIN 7/16" female - max 1000W rms
			ATU0807422V - N female - max 400W rms

MECHANICAL	DATA
MATERIALS:	Reflector in stainless steel, lines and dipoles
	in copper and brass, teflon isolators, silicon O-rings
MOUNTING:	Directly on supporting structure via 4x M8 holes
MOUNTING BRACKETS:	Optional
	fixed brackets (cod. XZATUV)
	tiltable brackets (cod. XZATU)
ICING PROTECTION:	Whole antenna fully covered by fiberglass (SMC) radome
	Standard color RAL9010 white
TREATMENTS:	Silver-plated lines, dipoles and connector
PRESSURIZATION:	5.0 psi
ANTENNA DIMENSIONS:	460x178x760 mm (18.11x7x29.92 in)
WEIGHT:	14 kg (30.9 lb)
WIND SURFACE:	0.35 m² (3.76 ft²) front - 0.20 m² (2.15 ft²) side
WIND LOAD	0.65 kN front - 0.36 kN side
(160 km/h and 30°C)	
SURVIVAL WIND:	220 km/h (136.7 mph)
PACKING DIMENSIONS:	Box 820x530x300 mm - 16 kg
	(32.28x20.86x11.81 in - 35.27 lb)
SPECIAL FEATURES:	Colored radome upon request (typically red, grey, green)

Specification are subject to change without notice





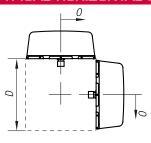


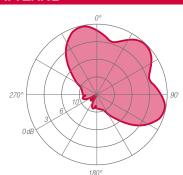
ARRAY FEATURES

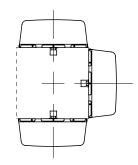
- Omnidirectional o directional patterns
- Equal or unequal power distribution system
- Configurable for specific azimut and elevation pattern
- Suitable for multiplexing many channels

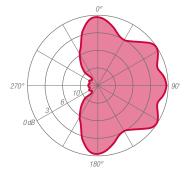
ARRAY ELECT	RICAL DATA
FREQUENCY RANGE	470 ÷ 862 MHz
IMPEDANCE	50 ohm
CONNECTOR	EIA flange according to system power rating
POWER RATING	The antenna system can accept any power
	according to requirements
VSWR	≤ 1.05 in the operating channels or
	≤ 1.15 throughout the frequency range
	Antenna system VSWR value also depending from the
	supporting structure
POLARIZATION	Vertical
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.
	The antenna system can be supplied in split feed
	configuration (two equal halves). Each half can accept
	full power.

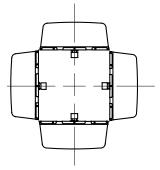
TYPICAL HORIZONTAL PATTERNS

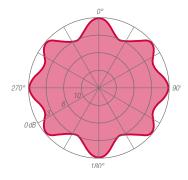












ARRAY MECHANICAL DATA			
HEIGHT OF ARRAY	Subject to number of bays		
TOTAL NET WEIGHT	Refer to table		
WIND LOAD	Refer to table		
PRESSURIZABLE	Yes		
MOUNTING HARDWARE	Optional mounting spine for top/side mount configuration		

ARRAY	TECH	INICAL	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	13.68	23.34	37 (81.5)	1.7 (5.5)	1.3
4	1	16.71	46.88	74 (163.1)	3.5 (11.5)	2.6
6	1	18.48	70.47	111 (244.1))	5.3 (17.4)	3.9
8	1	19.73	93.97	148 (326.3)	7.1 (23.3)	5.2
12	1	21.5	141.25	232 (511.5)	10.7 (35.1)	7.8
16	1	22.8	161.4	346 (762.8)	14.3 (46.9)	10.4
1	2	7.4	5.50	37 (81.5)	0.8 (2.6)	0.9
2	2	10.43	11.04	74 (163.1)	1.7 (5.5)	1.9
4	2	13.47	22.23	148 (326.3)	3.5 (11.5)	3.9
6	2	15.24	33.24	232 (511.5)	5.3 (17.4)	5.8
8	2	16.50	44.67	346 (762.8)	7.1 (23.3)	7.8
12	2	18.27	67.14	464 (1022.9)	10.7 (35.1)	11.6
16	2	19.6	91.2	692 (1525.6)	14.3 (46.9)	15.5
1	3	6.00	3.98	53 (116.8)	0.8 (2.6)	1.3
2	3	9.07	8.07	106 (233.7)	1.7 (5.5)	2.6
4	3	12.08	16.14	212 (467.4)	3.5 (17.4)	5.2
6	3	13.85	24.27	328 (723.1)	5.3 (17.4)	7.8
8	3	15.11	32.43	474 (1045)	7.1 (23.3)	10.4
12	3	16.88	48.75	656 (1446.2)	10.7 (35.1)	15.5
16	3	18.33	68.01	928 (2045.9)	14.3 (46.9)	20.7
1	4	4.95	3.13	74 (163.1)	0.8 (3.3)	1.3
2	4	7.94	7.22	148 (326.3)	1.7 (7.2)	2.6
4	4	10.95	12.45	296 (652.6)	3.5 (15.1)	5.2
6	4	12.72	18.71	464 (1022.9))	5.3 (23.0)	7.8
8	4	13.98	25.00	692 (1525.6)	7.1 (30.8)	10.4
12	4	15.75	37.58	928 (2045.9)	10.7 (46.6)	15.5
16	4	16.46	44.25	1384 (3051.2)	14.3 (46.9)	20.7

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.

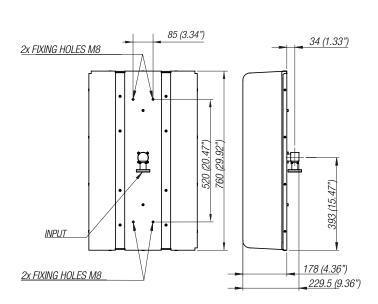
- (1) Gain data is relative to half-wave dipole. Values given are nominal and assume standard harness connfigurations. Gain will vary depending in specific feed system, null fill and beam tilt.
- (2) Without mounting hardware.
 (3) 160 km/h (100 mph) wind and 30°C (86°F) air temperature.
- (L) Total Antenna Height.

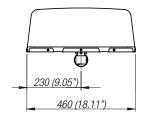
Specification are subject to change without notice

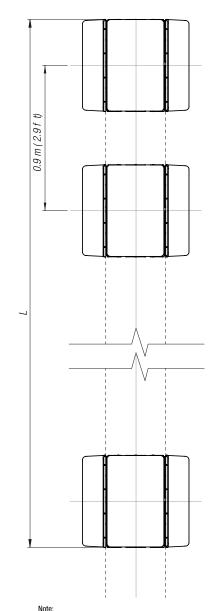


ANTENNA DIMENSIONAL DETAILS

ARRAY VERTICAL HEIGHT







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

OPTIONS & SERV	ICES
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