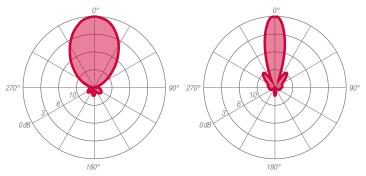




ANTENNA FEATURES

- Panel antenna 10.9 dBd gain.
- SLANT polarization (80% H 20% V).
- Broadband 470÷800 MHz.
- Directional radiation pattern.
- Designed for digital and/or analogue services.
- Pressurizable.

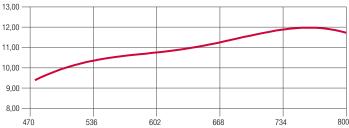
RADIATION PATTERNS (Mid Band)



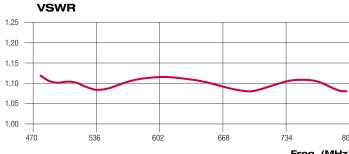
E - Plane	
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H - Plane

GAIN (dB)



Freq. (MHz)



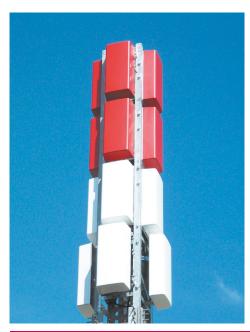
Freq. (MHz)

ELECTRICAL DATA				
WORKING BAND:	470-800 MHz			
BANDWIDTH:	UHF IV/V band			
GAIN:	10.9 dBd (13.1 dBi)			
VSWR:	≤ 1.12:1 (-25 dB)			
POLARIZATION:	Slant (80% H & 20% V)			
IMPEDANCE:	50 Ohm balanced			
HALF POWER BEAMWIDTH:	E-Plane - 57°			
	H-Plane - 23°			
LIGHTNING PROTECTION:	All metal parts DC grounded			
	including inner conductors			
AVAILABLE VERSION AND CODE:	ATU0807420S - DIN 7/16 female - max 1000W rms			
	ATU0807421S - EIA 7/8" - max 2000W rms			

MECHANICAL	DATA
MATERIALS:	Reflector in stainless steel, lines and dipoles
	in copper and brass, teflon isolators, silicon 0-rings
MOUNTING:	Directly on supporting structure via 4x M8 holes
MOUNTING BRACKETS:	Optional
	fixed brackets (cod. XZATUF)
	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:	450x215x1000 mm (17.72x8.46x39.37 in)
WEIGHT:	13 kg (28.66 lb)
WIND SURFACE:	0.45 m² (4.84 ft²) front - 0.22 m² (2.37 ft²) side
WIND LOAD	0.83 kN front - 0.41 kN side
(160 km/h and 30°C)	
SURVIVAL WIND:	220 km/h (136.7 mph)
PACKING DIMENSIONS:	Box 530x1050x370 mm - 15.5 kg
	(20.87x41.34x14.57 in - 34.17 lb)
SPECIAL FEATURES:	Colored radome upon request (typically red, grey, green)

Specification are subject to change without notice



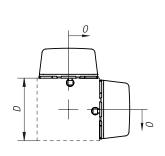


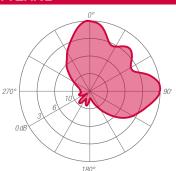
ARRAY FEATURES

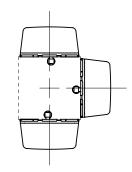
- Omnidirectional o directional patterns
- Equal or unequal power distribution system
- Configurable for specific azimut and elevation pattern
- Suitable for multiplexing many channels

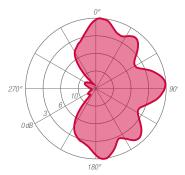
order
be
eed n accept

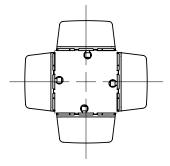
TYPICAL HORIZONTAL PATTERNS

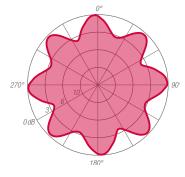












ARRAY MECHANICAL DATA			
HEIGHT OF ARRAY	Subject to number of bays		
TOTAL NET WEIGHT	Refer to table		
WIND LOAD	Refer to table		
PRESSURIZABLE	Yes		
MOUNTING HARDWARE	Optional mounting spine for top/side mount configuration		

ARRAY	TECH	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	15.1	32.4	35 (77.2)	2.2 (7.2)	1.7
4	1	18.1	64.6	70 (154.3)	4.6 (15.1)	3.3
6	1	19.9	97.7	105 (231.5)	7.0 (23.0)	5.0
8	1	21.2	131.8	140 (308.6)	9.4 (30.8)	6.6
12	1	23.0	199.6	220 (485.0)	14.2 (46.6)	10.0
16	1	24.2	263.0	280 (617.3)	19.0 (62.3)	13.3
1	2	9.1	8.1	35 (77.2)	1.0 (3.3)	1.2
2	2	12.2	16.6	70 (154.3)	2.2 (7.2)	2.5
4	2	15.2	33.1	140 (308.6)	4.6 (15.1)	5.0
6	2	17.0	50.1	220 (485.0)	7.0 (23.0)	7.4
8	2	18.3	67.6	330 (727.5)	9.4 (30.8)	9.9
12	2	20.0	100.0	440 (970.0)	14.2 (46.6)	14.9
16	2	21.3	134.9	660 (1455.1)	19.0 (62.3)	19.8
1	3	7.6	5.8	50 (110.2)	1.0 (3.3)	1.7
2	3	10.6	11.5	100 (220.5)	2.2 (7.2)	3.3
4	3	13.7	23.4	200 (440.9)	4.6 (15.1)	6.6
6	3	15.5	35.5	310 (683.4)	7.0 (23.0)	9.9
8	3	16.7	46.8	450 (992.1)	9.4 (30.8)	13.2
12	3	18.5	70.8	620 (1366.9)	14.2 (46.4)	19.8
16	3	19.8	95.5	900 (1984.2)	19.0 (62.3)	26.4
1	4	5.5	3.5	70 (154.3)	1.0 (3.3)	1.7
2 4	4 4	8.6 11.7	7.2 14.8	140 (308.6	2.2 (7.2)	3.3
6	4			330 (727.5) 440 (970.0)	4.6 (15.1)	6.6
8	4	13.5 14.7	22.4 29.5	660 (1455.1)	7.0 (23.0) 9.4 (30.8)	9.9 13.2
o 12	4	16.5	29.5 44.7	880 (1940.1)	9.4 (30.6) 14.2 (46.4)	19.8
16	4	17.8	60.3	1320 (2910.1)	19.0 (62.3)	26.4
10	7	17.0	00.0	1020 (2010.1)	13.0 (02.3)	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.

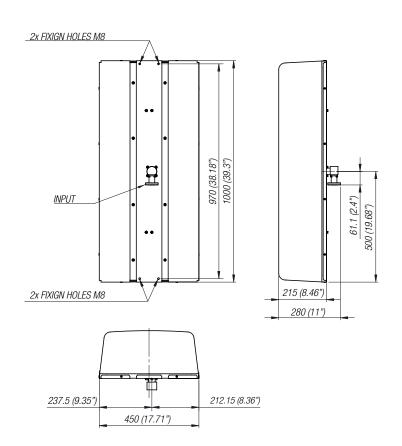
- (1) Gain data is relative to half-wave dipole. Values given are nominal and assume standard harness connfigurations. Gain will vary depending in specific feed system, null fill and beam tilt.
- (2) Without mounting hardware.
 (3) 160 km/h (100 mph) wind and 30°C (86°F) air temperature.
- (L) Total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

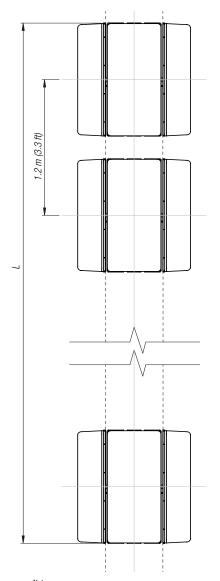
Specification are subject to change without notice



ANTENNA DIMENSIONAL DETAILS

ARRAY VERTICAL HEIGHT





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

OPTIONS & 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