

6135208  
6135208N

1710-2690 MHz

Twin Beam | Twin Band | Panel Antenna | (2x) X-Pol | 33° | 21 dBi | Variable Tilt

- Twin band, Twin Beam, (2x) X-Pol, variable tilt, panel antenna
- Independent tilt on each band 0-10°
- Beamwidths are ±30° from antenna center
- Manual (MET) or Remote (RET) electrical tilt options
- Mounting and downtilt brackets included

**ORDERING OPTIONS** Select from the different options listed below

SELECT ELECTRICAL DOWNTILT CONTROL & AISG PROTOCOL	SELECT ACTUATOR	SELECT CONNECTOR TYPE	ANTENNA MODEL NUMBER
Manual Electrical Tilt (MET)	---	4.3-10 Female	6135208N
		7/16 DIN Female	6135208
Remote Electrical Tilt (RET) AISG v2.0 / 3GPP	Multi-Device Control Unit (MDCU)	4.3-10 Female	6135208NG
		7/16 DIN Female	6135208G

Electrical Characteristics		(2x) 1710-2690 MHz				
Frequency Bands		1710-1880 MHz	1850-1990 MHz	1920-2170 MHz	2300-2400 MHz	2490-2690 MHz
Gain	at mid Tilt	19.5 dBi	19.8 dBi	20.0 dBi	20.5 dBi	20.7 dBi
	over all Tilts	19.3 ± 0.6 dBi	19.6 ± 0.6 dBi	19.8 ± 0.6 dBi	20.3 ± 0.5 dBi	20.5 ± 0.8 dBi
Horizontal Beamwidth		35° ± 4.5°	32° ± 2.9°	30° ± 3.1°	28° ± 3.1°	26° ± 3.9°
Vertical Beamwidth		6.9° ± 0.5°	6.3° ± 0.5°	5.7° ± 0.5°	5.4° ± 0.4°	5.0° ± 0.4°
Electrical Downtilt		0-10°, continuously adjustable				
Horizontal First Upper Sidelobe Suppression (dB)		> 15 dB	> 15 dB	> 16 dB	> 15 dB	> 16 dB
Impedance		50Ω				
VSWR		< 1.5				
Polarization		(2x) ±45°				
Tilt accuracy		< 0.7 dB	< 0.6 dB	< 0.7 dB	< 0.6 dB	< 0.7 dB
Front-to-Back Ratio		> 25 dB	> 26 dB	> 27 dB	> 27 dB	> 25 dB
First Upper Sidelobe Suppression (dB)		> 16 dB	> 16 dB	> 16 dB	> 15 dB	> 15 dB
Upper Sidelobe Suppression, 20° Sector above Main Beam (dB)		> 15 dB	> 15 dB	> 15 dB	> 14 dB	> 14 dB
Cross- Polar Isolation		Same beam : ≥ 28 dB				
Beam to beam Isolation		≥ 15 dB				
IM3 (2x43 dBm carrier)		≤ -150 dBc				
Return loss		> 14 dB				
Input Power		200 W				
Connector		7/16 DIN Female x 4 or 4.3-10 Female x 4				
Lightning Protection		DC Ground				

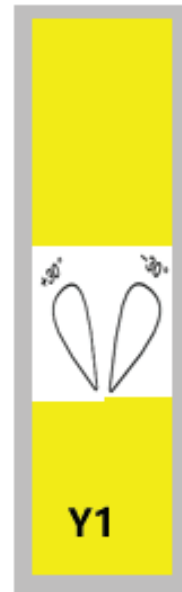
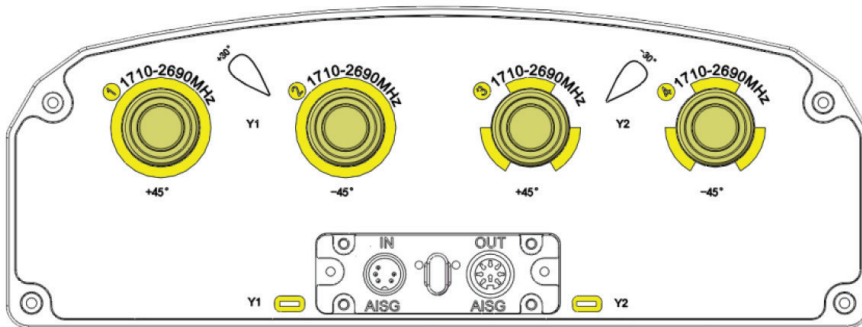
Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to products may be made without notice.

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INTEGRATED RET PROPERTIES	
Protocol	Compliant with 3GPP/AISGv2.0
Power Supply	10-30VDC
Adjustment Time (Full Range)	≤ 90 sec (typical, depending on antenna type)
Power Consumption	< 1 W (Idle); < 10 W (In Motion)
Accuracy	≤ 0.5°
Hardware Interface	RS485 and Power
Safety Standard	Compliant to EN 60950/UL 60950/ RoHS, CE
Adjustment Cycles	> 10,000
Torque Max	≥ 160 mN.m
Remote Control	Can manage from OMC, BTS/NodeB
Lightning Protection Rating	IEC 61000-4-5 Current Pulse Profile, 8/20 μs 10 Repetitions Min. @ 8 kA
Connectors	(2x) 8-Pin Circle Connector According to IEC 60130-9 and AISG Daisy Chain In: Male; Daisy Chain Out: Female Pin3: RS485+; Pin5: RS485-; Pin6: 10-30V; Pin7: GND Female connector: 8 Pins, Male connector: 5 Pins



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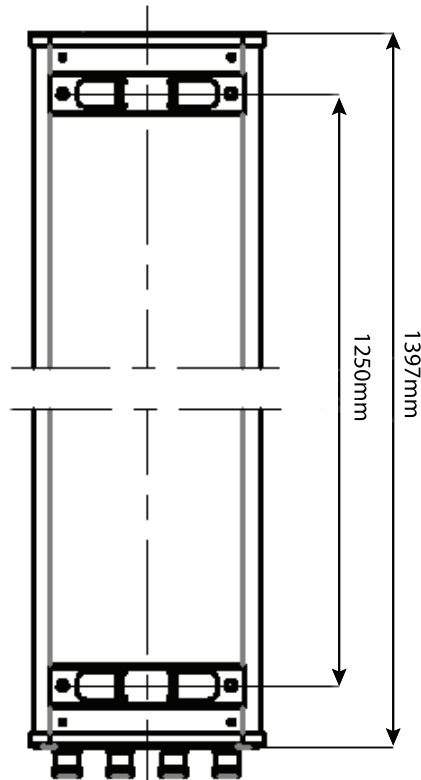
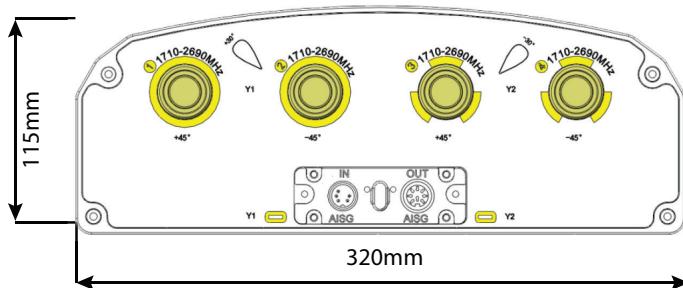
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MECHANICAL CHARACTERISTICS		PACKAGING	
Dimensions (Height x Width x Depth)		1397 x 320 x 115 mm (55.0 x 12.5 x 4.5 in)	
Weight (excluding mounting accessory)		15.5 kg (34.1 lbs)	
Shipping Weight		20 kg (44.0 lbs)	
Radome Material		UPVC	
Maximum Wind Speed		200 km/h (124.3 mph)	
Wind Load at 150 km/h	Frontal	415 N (93.2 lbf)	
	Rear	460 N (103.4 lbf)	
	Lateral	200 N (44.9 lbf)	
MOUNTING KIT OPTIONS		POLE DIAMETER	MECHANICAL TILT
All mounting bracket kits are ordered separately unless otherwise indicated.			
Mounting and Downtilt Bracket Kit (Included)		Ø50-Ø125 mm (Ø2.0-Ø4.9 mm)	0-16°

Carton Box  
1.577 x 0.415 x 0.235 m  
(62.1 x 16.3 x 9.2 in)



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