

6208712E

35°

2200 mm

6208712EG 6208712EN 6208712ENG Dual Band | Twin Beam | 8-Port | Panel Antenna | (2x) X-Pol | 35° | 2200 mm **Twin**Beam

- Dual band, Twin beam antenna, Dual polarisation, 8 connectors
- Independent tilt on each band 2-12°
- RET version, 3GPP/AISG2.0 with integrated RCU
- Mounting and downtilt brackets included

		1				- Y2 Y
	Frequency Range (MHz)	1695-2690	1695-2690	1695-2690	1695-2690	
PRODUCT OVERVIEW	Array	¥1	Y2	¥3	¥4	-
	Connector Position	1-2	3-4	5-6	7-8	
	Polarization	XPOL	XPOL	XPOL	XPOL	
	Azimuth Beamwidth	35°	35°	35°	35°	YI YI
	Electrical Downtilt	2-12°	2-12°	2-12°	2-12°	
	Dimensions			TEPPPE		

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)		7/16 DIN Female	6208712E
		4.3-10 Female	6208712EN
Remote Electrical Tilt (RET)	Multi-Device Control Unit	7/16 DIN Female	6208712EG
AISG v2.0 / 3GPP	(MDCU)	4.3-10 Female	6208712ENG





Y1, Y2, Y3, Y4

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ELECTRICAL SPECIFICATIONS Ultra Wide Band

Frequency Range		MHz			1695-2690		
		MHz	1695-1880	1850-1990	1920-2180	2300-2400	2490-2690
Polarization				1	± 45°	'	
Gain	Over all Tilts	dBi	18.2 ± 0.5	18.3 ± 0.5	18.5 ± 0.5	18.7 ± 0.5	19.0 ± 0.5
Azimuth Beamwidth		degrees	39.0 ± 3.0	38.0 ± 3.0	37.0 ± 3.0	36.0 ± 2.0	35.0 ± 2.0
Elevation Bea	amwidth	degrees	9.5 ± 0.5	8.9 ± 0.5	8.4 ± 0.5	7.1 ± 0.5	6.6 ± 0.5
Horizontal Be	eam Pointing		-28°, +28°	-28°, +28°	-28°, +28°	-28°, +28°	-28°, +28°
Electrical Downtilt		degrees	2-12				
Impedance		Ohms	50				
VSWR			< 1.5				
Passive Intermodulation		dBc	< -153				
Front-to-Back Ratio		dB	> 25	> 26	> 27	> 27	> 27
Horizontal Sid	delobe Suppression	dB	> 15	> 15	> 15	> 15	> 15
Upper Sidelo	be Suppression, Peak to 20°	dB	> 15	> 15	> 15	> 15	> 15
Cross Polar Discrimination @ Main Direction (0°)		dB	> 15	> 15	> 15	> 15	> 15
Maximum Effective Power Per Port Watts			200 W				
Cross Polar Isolation dB			Same beam : ≥ 25				
Beam-to-Bea	m Isolation	dB	≥ 25				
		1					

Standard values based on NGMN-P-BASTA version 10.0 recommendation.



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ELECTRICAL DOWNTILT CONTROL

For multiband antennas, electrical downtilt for each band can be controlled separately.				
Manual Electrical Tilt (MET) Control	The MET is a separate kit provided on the bottom of the antenna. This kit has colored knobs with a respective array identification indicated within it. This knob can be rotated to set an electrical downtilt as per the requirement. The tilt information of the respective arrays can be observed with an indicator provided near the knob.			
Remote Electrical Tilt (RET) Control	The remote control of the electrical tilt is managed by a Multi-Device Control Unit (MDCU) inserted in the bottom of the antenna. See details below and refer to the ordering options to see which actuators are available with this particular antenna. A single actuator individually controls the tilt of each band (no need for daisy chain cables between the bands). This module does not add any additional length to the antenna.			

RET ACTUATOR

Amphenol's **RET-READY** antennas are delivered with the RET Actuator already installed and pre-commissioned with all antenna parameters. Every RET device is factory configured and calibrated so the antenna is ready to be used once delivered to the site which means that there is no need for further installation of RET devices or for programming their configuration or for running a calibration process.

ACTUATORS (RET) in Amphenol antennas with factory embedded motors. The MDCU is factory installed. <i>Refer to the</i> ORDERING OPTIONS for availability with this model.	RET-READY ACTUATORS	
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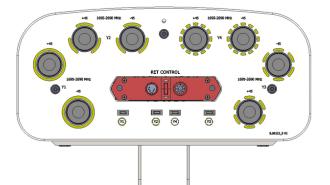
Number of RET-READY Actuators		One per antenna		
Input Voltage		+10 to +30 V		
Power Consumption Idle State (AISG P1)		0.5 W		
High Power Mode (AISG P2)		3 W		
Protocol		3GPP/AISG 2.0		
Tilt Change Duration		Less than 15 seconds, typical (may vary dependent on antenna type and outdoor temperature)		
Precision		±0.5°		
Tilt Change Capability		50,000 minimum		
RET Interface MDCU		One pair of AISG Male and Female (type IEC60130-9)		
Field Replaceable Unit		Yes		



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	ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
LAYOUT	<mark>_</mark> Y1	1695-2690	1-2	4.3-10 Female or 7/16 DIN Female Standard Neck
	<mark>_</mark> Y2	1695-2690	3-4	4.3-10 Female or 7/16 DIN Female Standard Neck
ARRAY	<mark>_</mark> Y3	1695-2690	5-6	4.3-10 Female or 7/16 DIN Female Standard Neck
	Y 4	1695-2690	7-8	4.3-10 Female or 7/16 DIN Female Standard Neck

Female

Diagram shown at right depicts the view from the front of the antenna.

The illustration is not shown to scale.

MECHANICAL SPECIFICATIONS

Length		mm (in)	2200 (86.6)	
Width		mm (in)	360 (14.1)	
Depth		mm (in)	159 (6.2)	
Net Weight - Antenna Only		kg (lbs)	≈30 (66.1)	
Mechanical Distance Between Mounting Points		mm (in)	Refer to Diagram	
Survival Wind Speed		km/h	200 (124)	
	Calculation	km/h	150 (93.2)	
Windload	Frontal	N (lbf)	823 (185.0)	
(EN 1991-1-4:2005 using Wind Tunnel Coefficients)	Lateral	N (lbf)	232 (52.1)	
	Rearside	N (lbf)	1042 (234.2)	
Reflector Material			Aluminium	
Radiator Material			Aluminium and Low loss circuit board	
Radome Material			Fiberglass (UV, Resistant)	
Radome Color			Gray RAL7035	



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ENVIRONMENTAL SPECIFICATIONS

Environmental Standard		ETS 300 019	
Lightning Protection		Direct Ground	
Operating Temperature	° C (° F)	-40° to +60° (-40° to 140°)	
Product Environmental Compliance		Product is RoHs Compliant	

ACCESSORIES All accessories are ordered separately unless otherwise indicated

ITEM	MODEL NUMBER	WEIGHT
Brackets for pole Ø48 to Ø115 mm (Ø1.9 to Ø4.5 in) <i>delivered as standard</i>	IA00181	3.4 kg (7.5 lbs)
Kit to add mechanical tilt (0° to 10°) to above brackets optional	0900397/00	3.0 kg (6.6 lbs)

Wall mounting brackets are available upon request

INSTALLATION Please read all installation notes before installing this product.



Always attach the antenna by all mounting points.

Do not install the antenna with the connectors facing upwards.

