

6210700E

30° 2385 mm



6210700EG 6210700EDx Dual Band | Twin Beam | 8-Port | Panel Antenna | (2x) X-Pol | 30° | 2385 mm

- 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

	Frequency Range (MHz)	1695-2690	1695-2690	1695-2690	1695-2690		
PRODUCT OVERVIEW	Array	Y 1	¥2	Y3	¥4		
	Connector Position	1-2	3-4	5-6	7-8		
	Polarization	XPOL	XPOL	XPOL	XPOL		
	Azimuth Beamwidth	30°	30°	30°	30°		
	Electrical Downtilt	2-12° 2-12° 2-12° 2-					
	Dimensions	2385 x 398 x 159 mm					



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	6210700E
Remote Electrical Tilt (RET)	Multi-Device Control Unit (MDCU)	4.3-10 Female	6210700EG
AISG v2.0 / 3GPP	Multi-Device Dual Unit (MDDU)	4.3-10 Female	6210700EDx*

*Pre-commissioned configuration; Contact Amphenol for further details.



8-Port Antenna

TwinBeam

2385 mm

30°

1695-2690 | 1695-2690 | 1695-2690 | 1695-2690 MHz

Y1, Y3

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Amphenol

ANTENNA SOLUTIONS

Dual Band | Twin Beam | 8-Port | Panel Antenna | (2x) X-Pol | 30° | 2385 mm

ELECTRICAL SPECIFICATIONS Ultra Wide Band

Frequency Range		MHz	1695-2690					
		MHz	1695-1880	1850-1990	1920-2180	2300-2400	2490-2690	
Polarization			±45°					
Gain	Over all Tilts	dBi	18.3	19.3	19.5	20.2	20.5	
Azimuth Beamwidth		degrees	31.0 ± 3.0°	30.0 ± 3.0°	29.0 ± 3.0°	27.0 ± 2.0°	26.0 ± 2.0°	
Elevation Beamwidth		degrees	$8.5^{\circ} \pm 0.5^{\circ}$	7.8° ± 0.5°	7.2° ± 0.5°	6.2° ± 0.5°	5.9° ± 0.5°	
Horizontal Beam Pointing			-29°, +29°	-28°, +28°	-27°, +27°	-26°, +26°	-25°, +25°	
Electrical Downtilt		degrees	2°-12°					
Impedance		Ohms	50					
VSWR			≤ 1.5					
Passive Intermodulation		dBc	< -153					
Front-to-Back Ratio, Total Power, ±30°		dB	> 28	> 29	> 30	> 32	> 32	
Horizontal Sidelobe Suppression		dB	> 15	> 15	> 15	> 15	> 15	
Upper Sidelobe Suppression, Peak to 20°		dB	> 15	> 15	> 15	> 15	> 15	
Cross Polar Discrimination @		dB	> 15	> 15	> 15	> 15	> 15	
Maximum Effective Power Per Port		Watts			200 W			
Cross Polar Isolation		dB			≥ 25			

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

ELECTRICAL SPECIFICATIONS Ultra Wide Band

Y2, Y4 MHz 1695-2690 Frequency Range MHz 1695-1880 1850-1990 1920-2180 2300-2400 2490-2690 Polarization ±45° ---Over all Tilts dBi 19.1 19.3 Gain 18.1 20.0 20.3 Azimuth Beamwidth $31.0 \pm 3.0^{\circ}$ $30.0 \pm 3.0^{\circ}$ $29.0 \pm 3.0^{\circ}$ $27.0 \pm 2.0^{\circ}$ $26.0 \pm 2.0^{\circ}$ degrees **Elevation Beamwidth** degrees $8.5^{\circ} \pm 0.5^{\circ}$ $7.8^{\circ} \pm 0.5^{\circ}$ $7.2^{\circ} \pm 0.5^{\circ}$ $6.2^{\circ} \pm 0.5^{\circ}$ $5.9^{\circ} \pm 0.5^{\circ}$ Horizontal Beam Pointing ____ -29°, +29° -28°, +28° -27°, +27° -26°, +26° -25°, +25° **Electrical Downtilt** 2°-12° degrees 50 Impedance Ohms VSWR ≤ 1.5 ----< -153 Passive Intermodulation dBc > 30 Front-to-Back Ratio, Total Power, ±30° dB > 28 > 29 > 32 > 32 Horizontal Sidelobe Suppression dB > 15 > 15 > 15 > 15 > 15 dB > 15 > 15 > 15 > 15 Upper Sidelobe Suppression, Peak to 20° > 15 Cross Polar Discrimination @ dB > 15 > 15 > 15 > 15 > 15 Maximum Effective Power Per Port 200 W Watts Cross Polar Isolation dB ≥ 25 Standard values based on NGMN-P-BASTA version 10.0 recommendation.



8-Port Antenna 1695-2690 | 1695-2690 | 1695-2690 | 1695-2690 MHz

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ELECTRICAL DOWNTILT CONTROL

For multiband antennas, elect	rical downtilt for each band can be controlled separately.
Manual Electrical Tilt (MET) Control	A colored knob at the end of the tilt indicator allows change of the tilt without need of a tool. The knob color is identical to the corresponding connector color. The manual tilt 'override' function is always available with no need to remove the physical RET motor.
Remote Electrical Tilt (RET) Control	The remote control of the electrical tilt is managed by a Multi-Device Control Unit (MDCU) or a Multi-Device Dual Unit (MDDU) 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.

RET-READY ACTUATORS	Multi-Device Control Unit (MDCU). The MCDU is an electronic module that allows the remote control of the electrical downtilt (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.				
	Multi-Device Dual Unit (MDDU). The MDDU allows two separate RET Controllers to independently drive the RETs in antennas with factory embedded motors (for antenna sharing or two technologies). The MDDU is factory installed. <i>Refer to the</i> ORDERING OPTIONS for availability with this model.				
Number of RET-READY Actuators		One per antenna			
Input Voltage		+10 to +30 V			
Power Consumption	on Idle State (AISG P1)	0.5 W			
	High Power Mode (AISG P2)) 3 W			
Protocol		3GPP/AISG 2.0			
Tilt Change Duratio	on	Less than 15 seconds, typical (may vary dependent on antenna type and outdoor temperature)			
Precision		±0.5°			
Tilt Change Capability		50,000 minimum			
	MDCU	One pair of AISG Male and Female (type IEC60130-9)			
KET Interface	MDDU	Two male AISG 8 pin connectors (type IEC60130-9 Ed 3.0)			
Field Replaceable (Jnit	Yes			



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F	ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
NOV	<mark>_</mark> Y1	1695-2690	1-2	4.3-10 Female Standard Neck
ΥLA	Y2	1695-2690	3-4	4.3-10 Female Standard Neck
RRA	<mark></mark> Y3	1695-2690	5-6	4.3-10 Female Standard Neck
A	<mark></mark> Y4	1695-2690	7-8	4.3-10 Female Standard Neck
			Diagram shown at ric	the denicts the view from the front of the entern

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

The illustration is not shown to scale.

MECHANICAL SPECIFICATIONS

mm (in)	2385 (93.8)
mm (in)	398 (15.6)
mm (in)	159 (6.2)
kg (lbs)	≈30 (66.1)
mm (in)	Refer to Diagram
km/h (mph)	200 (124)
	Gray RAL7035
	Fiberglass
	mm (in) mm (in) mm (in) kg (lbs) mm (in) km/h (mph)

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



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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

