

4-Port Antenna

1695-2690 | 1695-2690 MHz

TwinBeam

1285 mm

30°

6206100E

6206100EG 6206100EDx

Mono Band | Twin Beam | 4-Port | Panel Antenna | 2x (X-Pol) | 30° | 1285 mm

- Mono band, Twin beam antenna, Dual polarisation, 4 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
ΕN	Array	¥1	Y2
OVERVIEW	Connector Position	1-2	3-4
_	Polarization	XPOL	XPOL
PRODUCT	Azimuth Beamwidth	30°	30°
PRO	Electrical Downtilt	2-12°	2-12°
	Dimensions	1285 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	6206100E	* I.II.I.
Remote Electrical Tilt (RET)	Multi-Device Control Unit (MDCU)	4.3-10 Female	6206100EG	
AISG v2.0 / 3GPP	Multi-Device Dual Unit (MDDU)	4.3-10 Female	6206100EDx*	

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

ELECTRICAL SPECIFICATIONS Ultra Wide Band

ELECTRICA	L SPECIFICATIONS Ultra	Wide Band			Y1, Y2		
		MHz			1695-2690		
Frequency Range		MHz	1695-1880	1850-1990	1920-2180	2300-2400	2490-2690
Polarization				I	±45°	1	I
Gain	Over all Tilts	dBi	18.3	19.3	19.5	20.2	20.5
Azimuth Bear	nwidth	degrees	31.0 ± 3.0°	30.0 ± 3.0°	29.0 ± 3.0°	27.0 ± 2.0°	26.0 ± 2.0°
Elevation Bea	amwidth	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 Be	am Pointing		-29°, +29°	-28°, +28°	-27°, +27°	-26°, +26°	-25°, +25°
Electrical Dov	vntilt	degrees	2°-12°				
Impedance	npedance Ohms			50			
VSWR			≤ 1.5				
Passive Interr 3rd Order for	nodulation 2 x 20W Carriers	dBc	< -153				
Front-to-Back	x Ratio, Total Power, ±30°	dB	> 28	> 29	> 30	> 32	> 32
Horizontal Sic	delobe Suppression	dB	> 15	> 15	> 15	> 15	> 15
Upper Sidelo	pe Suppression, Peak to 20°	dB	> 15	> 15	> 15	> 15	> 15
Cross Polar D Main Directio	viscrimination @ n (0°)	dB	> 15	> 15	> 15	> 15	> 15
Maximum Eff	ective Power Per Port	Watts			200 W		
Cross Polar Is	olation	dB			≥ 25		





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

Several patents pending regarding this product. 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.



4-Port Antenna

1695-2690 MHz

30° 1285 mm

TwinBeam

6206100E 6206100EG 6206100EDx

Mono Band | Twin Beam | 4-Port | Panel Antenna | (2x) X-Pol | 30° | 1285 mm

ELECTRICAL DOWNTILT CONTROL

For multiband antennas, electri	cal 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 <i>for availability with this model</i> .
	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. Refer to the ORDERING OPTIONS for availability with this model.

Number of RET-READ	Y 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 tempera- ture)		
Precision		±0.5°		
Tilt Change Capability		50,000 minimum		
RET Interface MDCU MDDU		One pair of AISG Male and Female (type IEC60130-9)		
		Two male AISG 8 pin connectors (type IEC60130-9 Ed 3.0)		
Field Replaceable Unit	t	Yes		

Several patents pending regarding this product. 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.





TwinBeam

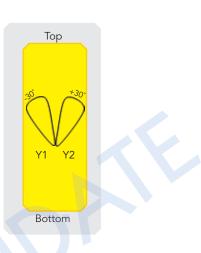
1285 mm

30°

6206100E

6206100EG 6206100EDx Mono Band | Twin Beam | 4-Port | Panel Antenna | (2x) X-Pol | 30° | 1285 mm





OUT	ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
IV LAY	<mark>_</mark> Y1	1695-2690	1-2	4.3-10 Female Standard Neck
ARR/	<mark>_</mark> Y2	1695-2690	3-4	4.3-10 Female Standard Neck

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)	1285 (50.5)
Width	mm (in)	398 (15.6)
Depth	mm (in)	159 (6.2)
Net Weight - Antenna Only	kg (lbs)	≈18 (39.6)
Mechanical Distance Between Mounting Points	mm (in)	Refer to Diagram
Survival Wind Speed	km/h (mph)	200 (124)
Radome Color		Gray RAL7035
Radome Material		Fiberglass

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

Several patents pending regarding this product. 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.



4-Port Antenna

TwinBeam

1695-2690 MHz

30° 1285 mm

6206100E

6206100EG 6206100EDx

Mono Band | Twin Beam | 4-Port | Panel Antenna | (2x) X-Pol | 30° | 1285 mm

ACCESSORIES All accessories are ordered separately unless otherwise indicated

IA00181	3.4 kg (7.5 lbs)
0900397/00	3.0 kg (6.6 lbs)

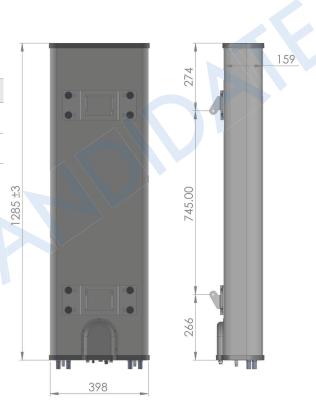
Wall mounting brackets are available upon request

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.



Several patents pending regarding this product. 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.