

4-Port Antenna

65°

5G Ready

698-960 | 698-960 MHz

Integra compatible

2697 mm

Integra

5720400R

5720400RG 5720400RDx Dual Band, 4-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 2697 mm

- Dual band antenna, dual polarisation, 4 connectors
- Integra compatible ability to upgrade and recycle, saving 50% carbon emission
- Independent tilt on each band 2-12° / 2-12°
- MET and RET versions, 3GPP/AISG2.0, in multiple single RET (multiple device type1) or in Multi-RET (device type 17, with firmware above MD3.10).
- Our patented, RET module controlling all tilt angles, fully inserted inside the antenna (field replaceable).
- 5G optimal integration with optional mMIMO & 8T8R Hybrid Kits (compatibility list available on request).

	Frequency Range (MHz)	698-960	698-960	
2	Array	R 1	R 2	
PRODUCT OVERVIEW	Connector	1-2	3-4	
CT OV	Polarization	XPOL	XPOL	
RODU	Azimuth Beamwidth (avg)	65°	65°	
⊒	Electrical Downtilt	2-12°	2-12°	
	Dimensions	2697 x 472	x 205 mm	

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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	5720400R
Remote Electrical Tilt (RET)	Multi-Device Control Unit (MDCU)	4.3-10 Female	5720400RG
AISG v2.0 / 3GPP	Multi-Device Dual Unit (MDDU)	4.3-10 Female	5720400RDx*

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



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Dual Band, 4-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 2697 mm

ELECTRICAL SPECIFICATIONS Ultra Low Band			R 1				
Frequency Range Polarization		MHz	698-960				
		MHz	698-806	880-960			
			±45°				
Gain	Over all Tilts	dBi	15.7 ± 0.5	16.0 ± 0.5	16.4 ± 0.4		
Azimuth B	Beamwidth	degrees	$74.9^{\circ} \pm 4.6^{\circ}$	70.0° ± 2.2°	68.2° ± 2.5°		
Elevation Beamwidth		degrees	8.3° ± 0.6°	7.6° ± 0.5°	$6.8^{\circ} \pm 0.6^{\circ}$		
Electrical Downtilt		degrees	2°-12°				
Impedance		Ohms	50				
VSWR (Return Loss)		(dB)	< 1.5 (>14)				
	termodulation for 2 x 20W Carriers	dBc	< -153				
Front-to-B	Back Ratio, Total Power, ±30°	dB	> 26.0	> 26.8	> 26.3		
Upper Side	elobe Suppression, Peak to 20°	dB	> 15.0	> 14.6	> 13.3		
Cross Polar Discrimination (XPD) Sector Edges (±60°)		dB	> 11.9	> 11.0	> 9.8		
Maximum Effective Power Per Port		Watts	250 W				
Inter/Intra Cluster Isolation		dB		> 25			

All parameters are compliant with BASTA revision V11.1

Frequency Range Polarization		MHz	Hz 698-960				
		MHz	698-806	880-960			
				±45°			
Gain	Over all Tilts	dBi	15.7 ± 0.5	16.1 ± 0.4	16.5 ± 0.4		
Azimuth Be	eamwidth	degrees	74.8° ± 3.6°	70.3° ± 2.1°	67.6° ± 1.6°		
Elevation E	Beamwidth	degrees	8.3° ± 0.5°	$7.6^{\circ} \pm 0.5^{\circ}$	6.8° ± 0.6°		
Electrical Downtilt		degrees	2°-12°				
Impedance		Ohms	50				
VSWR (Return Loss)		(dB)	< 1.5 (>14)				
	ermodulation for 2 x 20W Carriers	dBc		< -153			
Front-to-Ba	ack Ratio, Total Power, ±30°	dB	> 26.3	> 27.2	> 26.6		
Upper Side	lobe Suppression, Peak to 20°	dB	> 15.7	> 15.8	> 13.9		
Cross Polar Discrimination (XPD) Sector Edges (±60°)		dB	> 11.6 > 11.8		> 10.0		
Maximum Effective Power Per Port		Watts	250 W				
Inter/Intra Cluster Isolation		dB	> 25				

All parameters are compliant with BASTA revision V11.1

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5720400RG 5720400RDx Dual Band, 4-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 2697 mm

ELECTRICAL DOWNTILT CONTROL

For multiband antennas, electrical 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 iden to the corresponding connector color. The manual tilt 'override' function is always available with no need to remove 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 MDCU 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. *Refer to the* 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. *Refer to the* ORDERING OPTIONS for availability with this model.

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		3GPP/AISG 2.0			
Tilt Change Duration		3GPP/AISG 2.0 han 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)			
RET Interface	MDDU	Two male AISG 8 pin connectors (type IEC60130-9 Ed 3.0)			
Field Replaceable Unit		Yes			

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MECHANICAL SPECIFICATIONS

4-Port Antenna

698-960 | 698-960 MHz

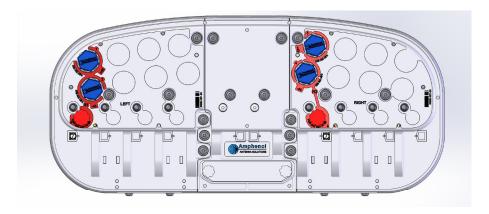
Integra compatible

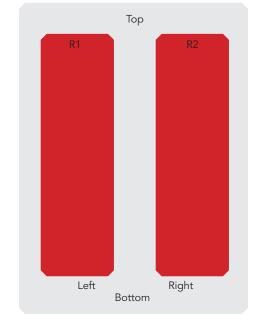
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5720400R

5720400RG 5720400RDx Dual Band, 4-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 2697 mm





≻	ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
RRA	R 1	698-960	1-2	4.3-10 Female
A	R 2	698-960	3-4	4.3-10 Female

Diagram shown at right depicts the view from the front of the antenna. The illustration is not shown to scale.

MECHANICAE :		CALLON D			
Length		mm (in)	2697 (106.1)		
Width		mm (in)	472 (18.6)		
Depth			mm (in)	205 (8.0)	
Net Weight - Antenna Only		kg (lbs)	42 (92.6)		
Mechanical Distance Between Mounting Points		mm (in)	Refer to Diagram		
Windload		Calculation	km/h (mph)	150 (93.2)	
(EN 1991-1-4:2005 Wind Tunnel Coeff		Frontal	N (lbf)	989 (222)	
	,	Lateral	N (lbf)	628 (141)	
		Rearside	N (lbf)	998 (224)	
		Maximum	N (lbf)	1830 (411.4)	
Survival Wind Spee	ed		km/h (mph)	240 (149)	
Radome Color				Gray RAL7035	
Radome Material				Outdoor Fiberglass	
Lightning Protection			Direct Ground		
Shipping D	Shipping Dimensions (Length x Width x Depth)		mm (in)	2940 x 540 x 370 (115.7 x 21.2 x 14.5)	
Shipping D Shipping W	Shipping Weight		kg (lbs)	53 (116.9)	
Shipping Vo	Shipping Volume		m ³ (ft ³)	0.587 (20.7)	
11 3					

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4-Port Antenna

65°

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Integra compatible

5G Ready

2697 mm

5720400R

5720400RG 5720400RDx

Dual Band, 4-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 2697 mm

ENVIRONMENTAL SPECIFICATIONS

Environmental Standard		ETS 300 019
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>	O8464	3.4 kg (7.5 lbs)
Brackets for pole Ø70 to Ø150 mm (Ø2.8-Ø5.9 in) optional	O8465	3.9 kg (8.6 lbs)
Kit to add mechanical tilt (0° to 10°) to above brackets optional	0900396/00	2.3 kg (5.1 lbs)

INSTALLATION Please read all installation notes before installing this product.

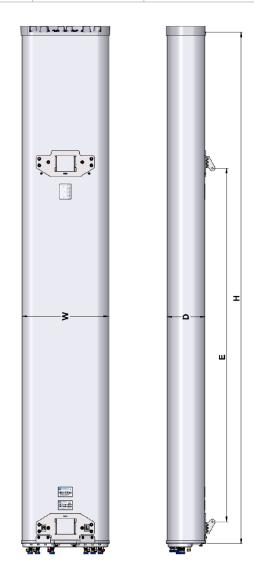


Always attach the antenna by all mounting points.

Do not install the antenna with the connectors facing upwards.

MAIN DIMENSIONS

Length	Н	mm (in)	2697 (106.1)
Width	W	mm (in)	472 (18.6)
Depth	D	mm (in)	205 (8.0)
Distance between mounting points	E	mm (in)	1865 (73.5)



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