698-960 | 698-960 | 1427-2690 | 1427-2690 MHz

65°

5G Ready

Integra compatible

2697 mm

5761400R

5761400RG 5761400RDx Quad Band, 8-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 2697 mm

- Quad band antenna, dual polarisation, 8 connectors
- Integra compatible ability to upgrade and recycle, saving 50% carbon emission
- Independent tilt on each band 2-12° / 2-12° / 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	1427-2690	1427-2690
>	Array	R 1	R 2	<mark>_</mark> Y1	Y 2
OVERVIEW	Connector	1-2	3-4	5-6	7-8
	Polarization	XPOL	XPOL	XPOL	XPOL
PRODUCT	Azimuth Beamwidth (avg)	65°	65°	65°	65°
P	Electrical Downtilt	2-12°	2-12°	2-12°	2-12°
	Dimensions		2697 x 472	2 x 205 mm	~

12 Y1

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	5761400R
Remote Electrical Tilt (RET)	Multi-Device Control Unit (MDCU)	4.3-10 Female	5761400RG
AISG v2.0 / 3GPP	Multi-Device Dual Unit (MDDU)	4.3-10 Female	5761400RDx*

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



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698-960 | 698-960 | 1427-2690 | 1427-2690 MHz

65°

Integra compatible

5G Ready

5761400R

5761400RG 5761400RDx

Quad Band, 8-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 2697 mm

ELECTRIC	CAL SPECIFICATIONS Ultr	a Low Band	E R1					
Frequency	Range	MHz	698-960					
		MHz	698-806	880-960				
Polarization				±45	0	'		
Gain	Over all Tilts	dBi	15.6 ± 0.4	16.1 ± 0.3	16.2 ± 0.4	16.5 ± 0.4		
Azimuth Beamwidth		degrees	73.3° ± 2.1°	69.1° ± 2.8°	68.0° ± 2.3°	64.5° ± 3.3°		
Elevation Beamwidth		degrees	8.4° ± 0.6°	7.5° ± 0.4°	7.2° ± 0.4°	6.7° ± 0.3°		
Electrical Downtilt		degrees	2°-12°					
Impedance		Ohms	50					
VSWR (Ret	turn Loss)	(dB)	< 1.5 (>14)					
	ermodulation for 2 x 20W Carriers	dBc	< -153					
Front-to-Ba	ack Ratio, Total Power, ±30°	dB	> 25.0	> 25.7	> 25.0	> 24.5		
Upper Side	lobe Suppression, Peak to 20°	dB	> 15.0	> 16.0	> 16.5	> 14.5		
Cross Polar Discrimination (XPD) Sector Edges (±60°)		dB	> 9.8	> 8.4	> 8.8	> 8.1		
Maximum Effective Power Per Port Watts		Watts	250 W					
Inter/Intra Cluster Isolation d		dB	> 25					

All parameters are compliant with BASTA revision V11.1

Frequency Range		MHz	698-960					
		MHz	698-806	880-960				
Polarization				±45	0			
Gain Over all Tilts		dBi	15.5 ± 0.4	16.2 ± 0.3	16.4 ± 0.5	16.5 ± 0.5		
Azimuth Beamwidth		degrees	$74.4^{\circ} \pm 2.4^{\circ}$	70.5° ± 3.8°	68.7° ± 3.1°	65.3° ± 2.9°		
Elevation Beamwidth		degrees	$8.4^{\circ} \pm 0.6^{\circ}$	7.6° ± 0.5°	7.3° ± 0.5°	6.8° ± 0.3°		
Electrical Downtilt		degrees	2°-12°					
Impedance		Ohms	50					
VSWR (Re	eturn Loss)	(dB)	< 1.5 (>14)					
	termodulation for 2 x 20W Carriers	dBc	< -153					
Front-to-B	ack Ratio, Total Power, ±30°	dB	> 25.4	> 25.2	> 24.8	> 24.4		
Upper Side	elobe Suppression, Peak to 20°	dB	> 14.1	> 15.5	> 15.8	> 14.1		
Cross Polar Discrimination (XPD) Sector Edges (±60°)		dB	> 9.7	> 7.5	> 7.8	> 8.0		
Maximum Effective Power Per Port Watts		Watts	250 W					
Inter/Intra Cluster Isolation dE		dB	> 25					

All parameters are compliant with BASTA revision V11.1

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CONNECTING PEOPLE + TECHNOLOGY
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8-Port Antenna 698-960 | 698-960 | 1427-2690 | 1427-2690 MHz

5G Ready

Y1

Integra compatible

65°

5761400R

5761400RG 5761400RDx

Quad Band, 8-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 2697 mm

ELECTRICAL SPECIFICATIONS MEGA Wide

Band

Frequency Range		MHz			1427-2690				
		MHz	1427-1518	1695-1880	1920-2180	2300-2500	2490-2690		
Polarization					±45°	1			
Gain C	Over all Tilts	dBi	15.8 ± 0.6	16.9 ± 0.3	17.1 ± 0.4	17.2 ± 0.6	17.6 ± 0.5		
Azimuth Beamw	vidth	degrees	$68.9^{\circ} \pm 5.0^{\circ}$	66.5° ± 4.0°	66.8° ± 3.7°	63.5° ± 4.4°	63.1° ± 5.4°		
Elevation Beamwidth		degrees	8.9° ± 0.4°	7.2° ± 0.4°	6.4° ± 0.7°	5.6° ± 0.2°	5.1° ± 0.3°		
Electrical Downtilt		degrees	2°-12°						
Impedance		Ohms	50						
VSWR (Return Loss)		(dB)	< 1.5 (>14)						
Passive Intermo 3rd Order for 2 :		dBc	< -153						
Front-to-Back Ra	atio, Total Power, ±30°	dB	> 23.8	> 27.2	> 28.0	> 27.5	> 28.3		
Upper Sidelobe 20°	Suppression, Peak to	dB	> 17.3	> 16.4	> 18.2	> 16.8	> 15.1		
Cross Polar Discrimination (XPD) Sector Edges (±60°)		dB	> 10.1	> 7.1	> 9.1	> 7.4	> 7.0		
Maximum Effective Power Per Port Watts		Watts	200 W						
Inter/Intra Cluster Isolation dB		dB	> 25						

ELECTRICAL SPECIFICATIONS MEGA Wide Band

All parameters are compliant with BASTA revision V11.1 Y2

Band									
Frequency Range		MHz			1427-2690				
		MHz	1427-1518	1695-1880	1920-2180	2300-2500	2490-2690		
Polarization	n				±45°				
Gain	Over all Tilts	dBi	15.7 ± 0.4	17.0 ± 0.4	17.2 ± 0.3	17.3 ± 0.5	17.7 ± 0.4		
Azimuth Beamwidth		degrees	70.3° ± 4.3°	68.4° ± 3.4°	67.7° ± 2.6°	64.1° ± 3.5°	$62.0^{\circ} \pm 4.4^{\circ}$		
Elevation Beamwidth		degrees	$9.0^{\circ} \pm 0.4^{\circ}$	7.3° ± 0.5°	6.3° ± 0.6°	5.5° ± 0.3°	5.1° ± 0.3°		
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	> 24.8	> 25.9	> 28.2	> 28.3	> 26.8		
Upper Side 20°	elobe Suppression, Peak to	dB	> 16.5	> 15.9	> 16.9	> 16.2	> 15.0		
Cross Polar Discrimination (XPD) Sector Edges (±60°)		dB	> 7.2	> 6.7	> 7.8	> 7.6	> 6.0		
Maximum Effective Power Per Port Watts		Watts	200 W						
Inter/Intra Cluster Isolation dB			> 25						

All parameters are compliant with BASTA revision V11.1

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698-960 | 698-960 | 1427-2690 | 1427-2690 MHz

5G Ready

Integra compatible

65° 2697 mm

5761400R

5761400RG 5761400RDx Quad Band, 8-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 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 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-READ	Y Actuators	One per antenna			
Input Voltage +10 to +30 V		+10 to +30 V			
Power Consumption Idle State (AISG P1) High Power Mode (AISG P2)		0.5 W			
		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			
	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 Uni	t	Yes			

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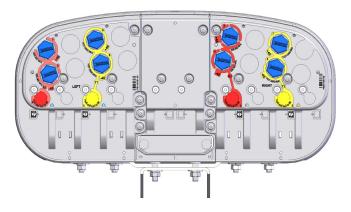
698-960 | 698-960 | 1427-2690 | 1427-2690 MHz

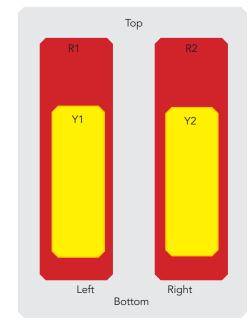
Integra compatible

5G Ready 65°

5761400R

5761400RG 5761400RDx Quad Band, 8-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 2697 mm





5	ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
λοι	R 1	698-960	1-2	4.3-10 Female
LA	R 2	698-960	3-4	4.3-10 Female
RRA)	¥1	1427-2690	5-6	4.3-10 Female
AR	<mark>_</mark> Y2	1427-2690	7-8	4.3-10 Female

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

MECHANICAL SPECIFICATIONS

Length	Length		mm (in)	2697 (106.1)
Width		mm (in)	472 (18.6)	
Depth			mm (in)	205 (8.0)
Net W	eight - Antenna Only		kg (lbs)	50 (110.2)
Mecha	nical Distance Betwe	en Mounting Points	mm (in)	Refer to Diagram
Windle		Calculation	km/h (mph)	150 (93.2)
	91-1-4:2005 using Funnel Coefficients)	Frontal	N (lbf)	989 (222)
	· · · · · · · · · · · · · · · · · · ·	Lateral	N (lbf)	628 (141)
		Rearside	N (lbf)	998 (224)
		Maximum	N (lbf)	1830 (411.4)
Surviva	al Wind Speed		km/h (mph)	240 (149)
Radom	ne Color			Gray RAL7035
Radom	ne Material			Outdoor Fiberglass
Lightn	ing Protection			Direct Ground
Shipping Dimension		s (Length x Width x Depth)	mm (in)	2940 x 540 x 370 (115.7 x 21.2 x 14.5)
Shipping	Shipping Weight		kg (lbs)	61 (134.5)
Sh	Shipping Volume		m ³ (ft ³)	0.587 (20.7)

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698-960 | 698-960 | 1427-2690 | 1427-2690 MHz

Integra compatible

5G Ready 65° 2697 mm

5761400R

5761400RG 5761400RDx

Quad Band, 8-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.

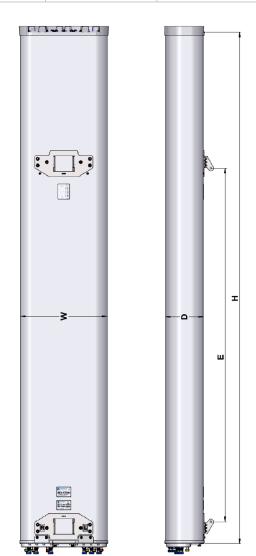


Always attach the antenna by all mounting points.

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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