

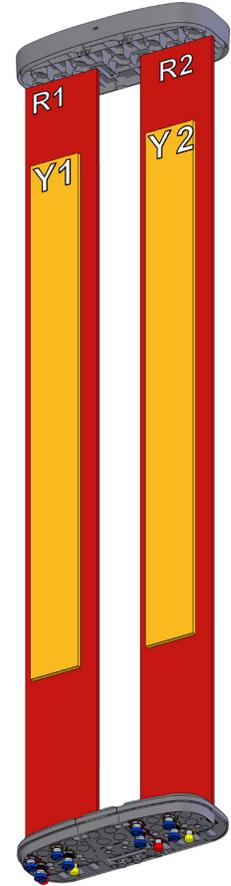
5763400R

5763400RG 5763400RDx

Quad Band, 8-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 1993 mm

- Quad band antenna, dual polarisation, 8 connectors
- 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).

PRODUCT OVERVIEW	Frequency Range (MHz)	698-960	698-960	1427-2690	1427-2690
	Array	R1	R2	Y1	Y2
	Connector	1-2	3-4	5-6	7-8
	Polarization	XPOL	XPOL	XPOL	XPOL
	Azimuth Beamwidth (avg)	65°	65°	65°	65°
	Electrical Downtilt	2-12°	2-12°	2-12°	2-12°
	Dimensions	1993 x 472 x 205 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	5763400R
Remote Electrical Tilt (RET) AISG v2.0 / 3GPP	Multi-Device Control Unit (MDCU)	4.3-10 Female	5763400RG
	Multi-Device Dual Unit (MDDU)	4.3-10 Female	5763400RDx*

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



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ELECTRICAL SPECIFICATIONS Ultra Low Band

■ R1

Frequency Range		MHz	698-960			
		MHz	698-806	790-862	824-894	880-960
Polarization		---	±45°			
Gain	Over all Tilts	dBi	14.5 ± 0.4	15.0 ± 0.4	15.2 ± 0.5	15.4 ± 0.5
Azimuth Beamwidth		degrees	73.3° ± 3.8°	68.8° ± 3.0°	66.8° ± 3.5°	63.3° ± 3.1°
Elevation Beamwidth		degrees	11.7° ± 0.9°	10.3° ± 0.8°	9.9° ± 0.7°	9.5° ± 0.6°
Electrical Downtilt		degrees	2°-12°			
Impedance		Ohms	50			
VSWR (Return Loss)		--- (dB)	< 1.5 (>14)			
Passive Intermodulation 3rd Order for 2 x 20W Carriers		dBc	< -153			
Front-to-Back Ratio, Total Power, ±30°		dB	> 24.0	> 24.8	> 24.6	> 25.2
Upper Sidelobe Suppression, Peak to 20°		dB	> 18.7	> 15.5	> 14.6	> 14.3
Cross Polar Discrimination (XPD) Sector Edges (±60°)		dB	> 8.7	> 8.4	> 8.9	> 9.3
Maximum Effective Power Per Port		Watts	250 W			
Inter/Intra Cluster Isolation		dB	> 25			

All parameters are compliant with BASTA revision V11.1

ELECTRICAL SPECIFICATIONS Ultra Low Band

■ R2

Frequency Range		MHz	698-960			
		MHz	698-806	790-862	824-894	880-960
Polarization		---	±45°			
Gain	Over all Tilts	dBi	14.2 ± 0.5	14.9 ± 0.4	15.1 ± 0.6	15.5 ± 0.4
Azimuth Beamwidth		degrees	73.4° ± 3.2°	68.2° ± 3.7°	66.7° ± 3.4°	64.0° ± 3.8°
Elevation Beamwidth		degrees	11.6° ± 0.8°	10.2° ± 0.9°	9.8° ± 0.6°	9.5° ± 0.4°
Electrical Downtilt		degrees	2°-12°			
Impedance		Ohms	50			
VSWR (Return Loss)		--- (dB)	< 1.5 (>14)			
Passive Intermodulation 3rd Order for 2 x 20W Carriers		dBc	< -153			
Front-to-Back Ratio, Total Power, ±30°		dB	> 25.1	> 25.3	> 24.3	> 24.6
Upper Sidelobe Suppression, Peak to 20°		dB	> 18.3	> 15.4	> 14.5	> 15.2
Cross Polar Discrimination (XPD) Sector Edges (±60°)		dB	> 10.1	> 7.3	> 7.2	> 7.7
Maximum Effective Power Per Port		Watts	250 W			
Inter/Intra Cluster Isolation		dB	> 25			

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ELECTRICAL SPECIFICATIONS MEGA Wide Band

■ Y1

Frequency Range		MHz	1427-2690				
		MHz	1427-1518	1695-1880	1920-2180	2300-2500	2490-2690
Polarization		---	±45°				
Gain	Over all Tilts	dBi	15.7 ± 0.5	17.1 ± 0.3	17.1 ± 0.4	17.1 ± 0.5	17.4 ± 0.4
Azimuth Beamwidth		degrees	67.2° ± 5.9°	68.3° ± 3.3°	65.8° ± 3.6°	63.5° ± 4.9°	61.9° ± 5.0°
Elevation Beamwidth		degrees	8.5° ± 0.4°	7.0° ± 0.5°	6.0° ± 0.6°	5.3° ± 0.3°	4.9° ± 0.3°
Electrical Downtilt		degrees	2°-12°				
Impedance		Ohms	50				
VSWR (Return Loss)		--- (dB)	< 1.5 (>14)				
Passive Intermodulation 3rd Order for 2 x 20W Carriers		dBc	< -153				
Front-to-Back Ratio, Total Power, ±30°		dB	> 24.5	> 26.5	> 28.8	> 26.9	> 25.7
Upper Sidelobe Suppression, Peak to 20°		dB	> 15.2	> 16.7	> 15.8	> 15.2	> 13.6
Cross Polar Discrimination (XPD) Sector Edges (±60°)		dB	> 9.9	> 8.1	> 7.7	> 6.4	> 6.6
Maximum Effective Power Per Port		Watts	200 W				
Inter/Intra Cluster Isolation		dB	> 25				

All parameters are compliant with BASTA revision V11.1

ELECTRICAL SPECIFICATIONS MEGA Wide Band

■ Y2

Frequency Range		MHz	1427-2690				
		MHz	1427-1518	1695-1880	1920-2180	2300-2500	2490-2690
Polarization		---	±45°				
Gain	Over all Tilts	dBi	15.7 ± 0.4	17.1 ± 0.4	17.0 ± 0.3	17.1 ± 0.5	17.4 ± 0.3
Azimuth Beamwidth		degrees	66.9° ± 5.4°	68.3° ± 3.1°	66.0° ± 3.1°	63.4° ± 3.9°	61.5° ± 5.2°
Elevation Beamwidth		degrees	8.8° ± 0.4°	7.3° ± 0.4°	6.4° ± 0.6°	5.5° ± 0.4°	5.0° ± 0.3°
Electrical Downtilt		degrees	2°-12°				
Impedance		Ohms	50				
VSWR (Return Loss)		--- (dB)	< 1.5 (>14)				
Passive Intermodulation 3rd Order for 2 x 20W Carriers		dBc	< -153				
Front-to-Back Ratio, Total Power, ±30°		dB	> 24.2	> 27.9	> 29.6	> 28.1	> 26.3
Upper Sidelobe Suppression, Peak to 20°		dB	> 15.0	> 18.2	> 17.1	> 16.3	> 15.7
Cross Polar Discrimination (XPD) Sector Edges (±60°)		dB	> 9.9	> 8.3	> 8.5	> 6.9	> 7.0
Maximum Effective Power Per Port		Watts	200 W				
Inter/Intra Cluster Isolation		dB	> 25				

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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-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)
	MDDU	Two male AISG 8 pin connectors (type IEC60130-9 Ed 3.0)
Field Replaceable Unit		Yes

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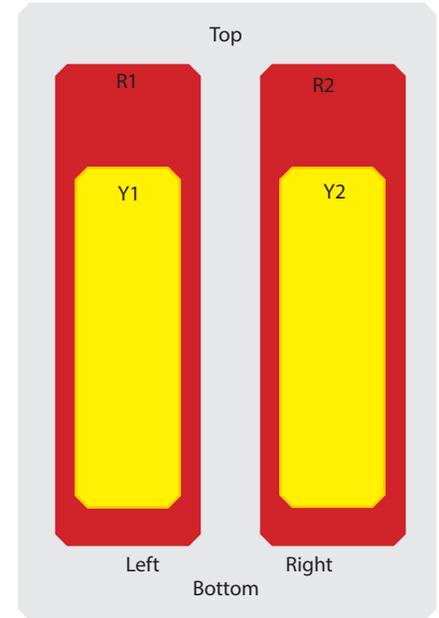
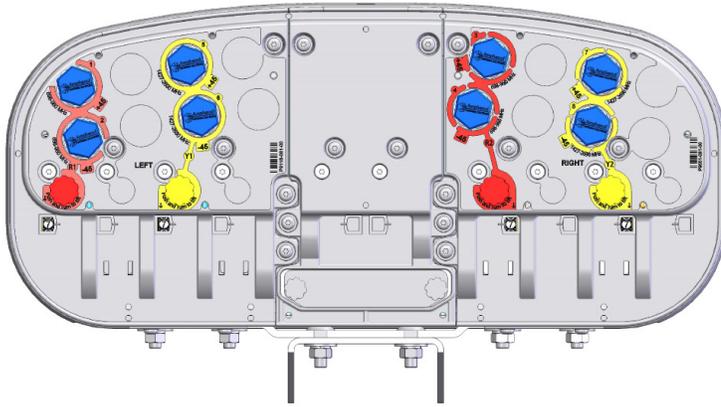


Diagram shown at right depicts the view from the front of the antenna.
The illustration is not shown to scale.

ARRAY LAYOUT	ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
	■ R1	698-960	1-2	4.3-10 Female
	■ R2	698-960	3-4	4.3-10 Female
	■ Y1	1427-2690	5-6	4.3-10 Female
■ Y2	1427-2690	7-8	4.3-10 Female	

MECHANICAL SPECIFICATIONS

Length	mm (in)	1993 (78.4)	
Width	mm (in)	472 (18.6)	
Depth	mm (in)	205 (8.0)	
Net Weight - Antenna Only	kg (lbs)	40 (88.2)	
Mechanical Distance Between Mounting Points	mm (in)	Refer to Diagram	
Windload (EN 1991-1-4:2005 using Wind Tunnel Coefficients)	Calculation	km/h (mph)	150 (93.2)
	Frontal	N (lbf)	735 (165.2)
	Lateral	N (lbf)	466 (104.7)
	Rearside	N (lbf)	740 (166.3)
Operational Wind Speed	km/h (mph)	160 (99.4)	
Survival Wind Speed	km/h (mph)	240 (149)	
Radome Color	---	Gray RAL7035	
Radome Material	---	Outdoor Fiberglass	
Lightning Protection	---	Direct Ground	
Shipping	Shipping Dimensions (Length x Width x Depth)	mm (in)	2235 x 540 x 370 (87.9 x 21.2 x 14.5)
	Shipping Weight	kg (lbs)	51 (112.4)
	Shipping Volume	m ³ (ft ³)	0.447 (15.7)

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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) delivered as standard	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.

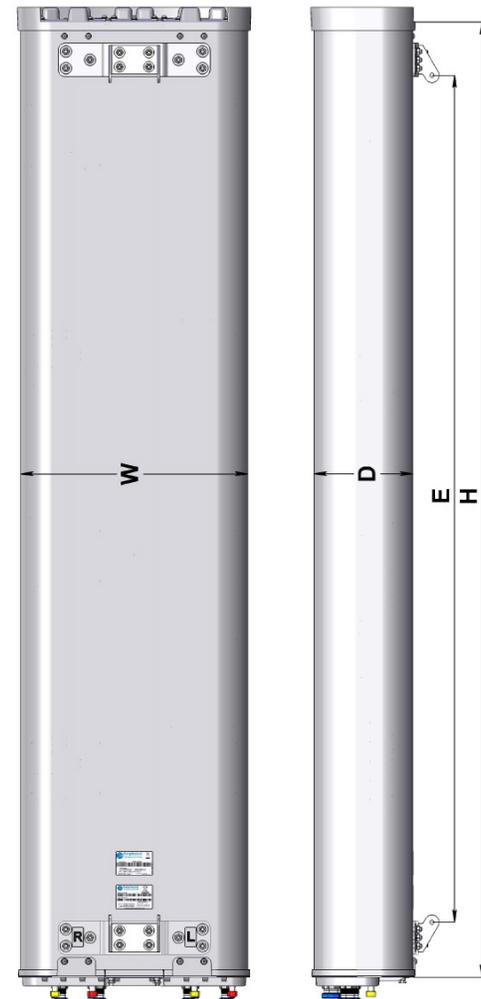


Always attach the antenna by all mounting points.

Do not install the antenna with the connectors facing upwards.

MAIN DIMENSIONS

Dimension	Symbol	Unit	Value
Length	H	mm (in)	1993 (78.4)
Width	W	mm (in)	472 (18.6)
Depth	D	mm (in)	205 (8.0)
Distance between mounting points	E	mm (in)	1766 (69.5)



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