

QUAD656LU000G

DUAL BAND | 4-PORT PANEL | XPOL | 65° | 1936 MM (76.2 IN)

PRODUCT OVERVIEW	Frequency Range (MHz)	617-906	1695-2700
	Array	■ R1	■ Y1
	Connector	1-2	3-4
	Connector Type	4.3-10 Female Long Neck	4.3-10 Female Long Neck
	Polarization	XPOL	XPOL
	Azimuth Beamwidth (avg)	65°	65°
	Electrical Downtilt	0-12°	2-10°
	Dimensions	1936 x 401 x 214 mm (76.2 x 15.8 x 8.4 in)	



ELECTRICAL SPECIFICATIONS Low Band

■ R1

Frequency Range	MHz	617-906			
Frequency Sub-Range	MHz	617-698	698-798	800-906	
Polarization	---	±45°			
Gain	Low Tilt	dBi	14.1	14.2	14.5
	Mid Tilt	dBi	14.2	14.3	14.6
	High Tilt	dBi	14.3	14.4	14.7
	Over all Tilts	dBi	14.2 ± 0.6	14.3 ± 0.5	14.6 ± 0.5
Azimuth Beamwidth (3 dB)	degrees	68.9 ± 2.6	68.6 ± 3.2	68.4 ± 4.3	
Elevation Beamwidth (3 dB)	degrees	12.0 ± 0.7	11.0 ± 0.5	10.0 ± 0.4	
Electrical Downtilt	degrees	0-12			
Impedance	Ohms	50			
VSWR	---	1.5:1			
Passive Intermodulation 3rd Order for 2x20 W Carriers	dBm (dBc)	< -110 (< -153)			
Front-to-Back Ratio ± 30° @ 180° from boresite	dB	> 27.7	> 27	> 26.0	
Upper Sidelobe Rejection 20° Sector Above Main Beam	dB	> 20.6	> 19	> 17.9	
Cross Polar Discrimination at Mechanical Boresight (0°)	dB	> 20.8	> 21	> 23.1	
Maximum Power Per Port	Watts	500			
Interband/Intraband Isolation	dB	25/30	25/30	25/30	

Standard values based on NGMN-P-BASTA version 9.6 recommendation.

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.

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ELECTRICAL SPECIFICATIONS Mid Band

■ Y1

Frequency Range		MHz	1695-2700			
Frequency Sub-Range		MHz	1695-1880	1850-1990	1920-2200	2300-2700
Polarization		---	±45°			
Gain	Low Tilt	dBi	16.4	17.0	17.3	17.4
	Mid Tilt	dBi	16.5	17.1	17.4	17.5
	High Tilt	dBi	16.6	17.1	17.5	17.6
	Over all Tilts	dBi	16.5 ± 0.5	16.7 ± 0.8	17.0 ± 0.8	17.2 ± 0.7
Azimuth Beamwidth (3 dB)		degrees	58.4 ± 4.4	61.2 ± 7.6	60.2 ± 6.6	58.5 ± 5.0
Elevation Beamwidth (3 dB)		degrees	5.6 ± 0.3	5.2 ± 0.2	5.2 ± 0.8	5.0 ± 0.7
Electrical Downtilt		degrees	2-10			
Impedance		Ohms	50			
VSWR		---	1.5:1			
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBm (dBc)	< -110 (< -153)			
Front-to-Back Ratio ± 30° @ 180° from boresite		dB	> 24.8	> 24.7	> 24.6	> 24.6
Upper Sidelobe Rejection 20° Sector Above Main Beam		dB	> 17.0	> 16.4	> 15.4	> 15.0
Cross Polar Discrimination at Mechanical Boresight (0°)		dB	> 19.4	> 20.4	> 18.8	> 18.0
Maximum Power Per Port		Watts	300			
Interband/Intraband Isolation		dB	25/30	25/30	25/30	25/30

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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.

Input Voltage		Vdc	10-30
Power Consumption	Idle State, maximum	Watts	0.5
	Normal Conditions, maximum	Watts	10.0
Protocol		---	3GPP/AISG v2.0 (Single RET)
RET Interface		---	DIN Male and DIN Female
Field Replaceable Unit		---	No

PRELIMINARY

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**NO
IMAGE
AVAILABLE**

**COMING
SOON**

ARRAY LAYOUT	ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
	■ R1	617-906	1-2	4.3-10 Female Long Neck
	■ Y1	1695-2700	3-4	4.3-10 Female Long Neck

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MECHANICAL SPECIFICATIONS

Antenna	Length	mm (in)	1936 (76.2)
	Width	mm (in)	401 (15.8)
	Depth	mm (in)	214 (8.4)
Net Weight - Antenna Only		kg (lbs)	TBD
Windload	Calculation	km/h (mph)	161 (100)
	Frontal	N (lbf)	660 (149)
	Lateral	N (lbf)	191 (43)
Survival Wind Speed		km/h (mph)	241 (150)
Connector	Type	---	4.3-10 Female
	Quantity	---	4
	Position	---	Bottom
Radome Color		---	Gray, RAL 7035
Radome Material		---	Outdoor Fiberglass
Lightning Protection (Grounding Type)		---	Direct Ground
Shipping	Length	mm (in)	TBD
	Width	mm (in)	TBD
	Depth	mm (in)	TBD
	Shipping Weight	kg (lbs)	TBD
	Shipping Volume	m ³ (ft ³)	TBD

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ACCESSORIES All accessories are ordered separately unless otherwise indicated

MODEL NUMBER	DESCRIPTION	FITS PIPE DIAMETER	WEIGHT
MKS10P02	3-point pole mounting bracket kit	Ø40 to Ø115 mm (Ø1.57 to Ø4.5 in)	6.4 kg (14.0 lbs)
MKS10T02	3-point pole mounting and downtilt bracket kit	Ø50 to Ø115 mm (Ø2.0 to Ø4.5 in)	9.3 kg (20.6 lbs)

INSTALLATION Please read all installation notes before installing this product.



Always attach the antenna using all mounting points.

Do not install the antenna with the connectors facing upwards.