

(2x) 617-906 | (2x) 1695-2700 MHz

## TWIN656LU000G-T

# TWIN DUAL BAND | 8-PORT PANEL | XPOL | 65° | 1936 MM (76.2 IN)

	Frequency Range (MHz)	617-906	617-906	1695-2700	1695-2700		
JCT OVERVIEW	Array	■ R1	■ R2	■ Y1	■ Y2		
	Connector	1-2	3-4	5-6	7-8		
	Connector Type	4.3-10 Female Long Neck	4.3-10 Female Long Neck	4.3-10 Female Long Neck	4.3-10 Female Long Neck		
	Polarization	XPOL	XPOL	XPOL	XPOL		
PRODUCT	Azimuth Beamwidth (avg)	65°	65°	65°	65°		
础	Electrical Downtilt	0-12°	0-12°	2-10°	2-10°		
	Dimensions	1936 x 660 x 214 mm (76.2 x 26.0 x 8.4 in)					



FI FCTRICAL	<b>SPECIFICATIONS</b>	Low Band
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Frequency Range		MHz		(2x) 617-906			
Frequency Sub-Range		MHz	617-698	698-798	800-906		
Polarization			(2x) ±45°				
	Low Tilt	dBi	14.9	14.8	14.4		
	Mid Tilt	dBi	14.8	14.8	14.3		
Gain	High Tilt	dBi	14.6	14.6	14.2		
	Over all Tilts	dBi	14.8 ± 0.5	14.7 ± 0.6	14.3 ± 0.6		
	Max Gain	dBi	15.3	15.3	14.9		
Azimuth Beamwidth (3 dB)		degrees	73.9 ± 8.1	74.4 ± 7.9	73.1 ± 10.7		
Elevation Beamwidth (3 dB)		degrees	13.5 ± 1.1 11.9 ± 0.9		10.2 ± 0.8		
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	> 31	> 31	> 29		
Upper Sidelobe Rejection 20° Sector Above Main Beam		dB	> 20	> 19	> 18		
Cross Polar Discrimination at Mechanical Boresight (0°)		dB	> 18	> 18	> 13		
Maximum Po	wer 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.

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ELECTRICAL SPECIFICATIONS Mid Band Y1 Y2								
Frequency Range		MHz	(2x) 1695-2700					
Frequency Sub-Range		MHz	1695-1880	1850-1990	1920-2200	2300-2700		
Polarization			(2x) ±45°					
	Low Tilt	dBi	17.1	17.2	17.3	17.2		
	Mid Tilt	dBi	17.1	17.4	17.5	17.4		
Gain	High Tilt	dBi	16.9	17.1	17.2	16.8		
	Over all Tilts	dBi	17.0 ± 0.7	17.3 ± 0.5	17.4 ± 0.6	17.2 ± 1.1		
	Max Gain	dBi	17.7	17.8	18.0	18.3		
Azimuth Beamwidth (3 dB)		degrees	71.1 ± 5.3	69.3 ± 5.5	65.5 ± 7.1	64.7 ± 8.9		
Elevation Beamwidth (3 dB)		degrees	6.3 ± 0.7	5.8 ± 0.5	5.5 ± 0.6	4.8 ± 3.3		
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	> 34	> 38	> 38	> 36		
Upper Sidelobe Rejection 20° Sector Above Main Beam		dB	> 17	> 18	> 18	> 16		
Cross Polar Discrimination at Mechanical Boresight (0°)		dB	> 14	> 15	> 15	> 14		
Maximum I	Power Per Port	Watts	300					
Interband/	Intraband Isolation	dB	25/30	25/30	25/30	25/30		

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



1936 mm

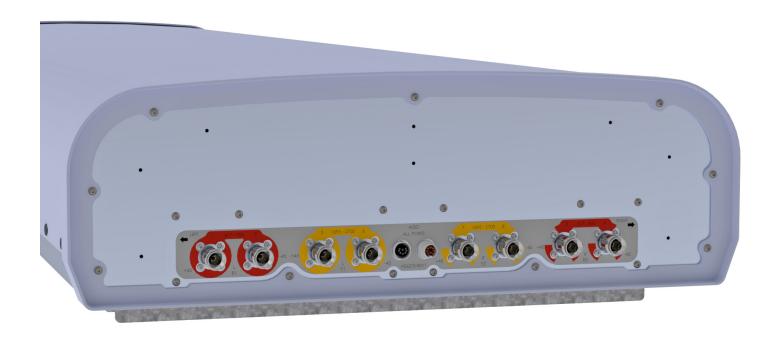
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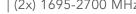
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#### **RET ACTUATOR**

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	Idle State, maximum	Watts	0.5
Consumption	Normal Conditions, maximum	Watts	10.0
Protocol			3GPP/AISG v2.0 (Single RET)
RET Interface			DIN Male and DIN Female
Field Replaceabl	e Unit		No

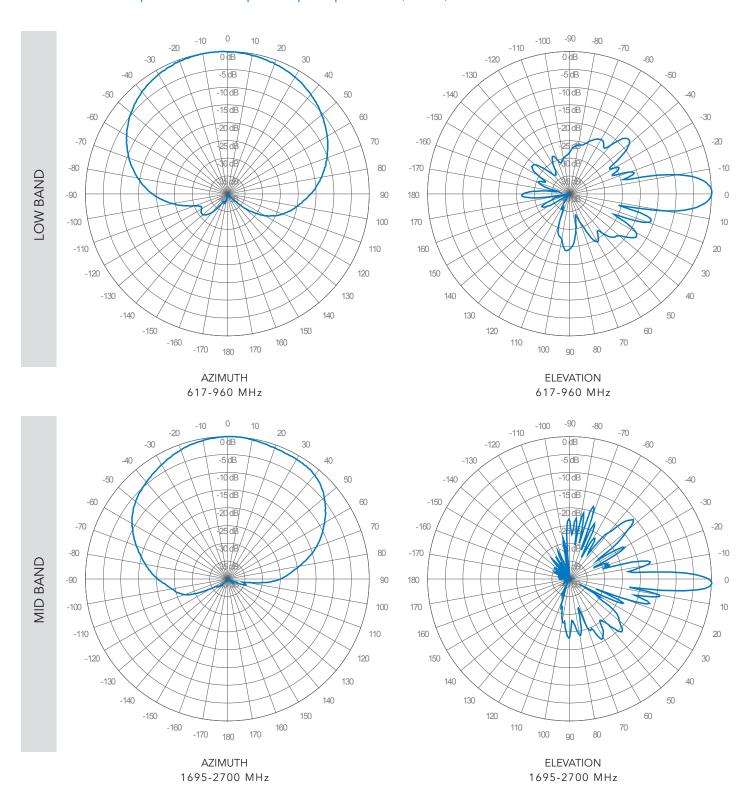




1936 mm

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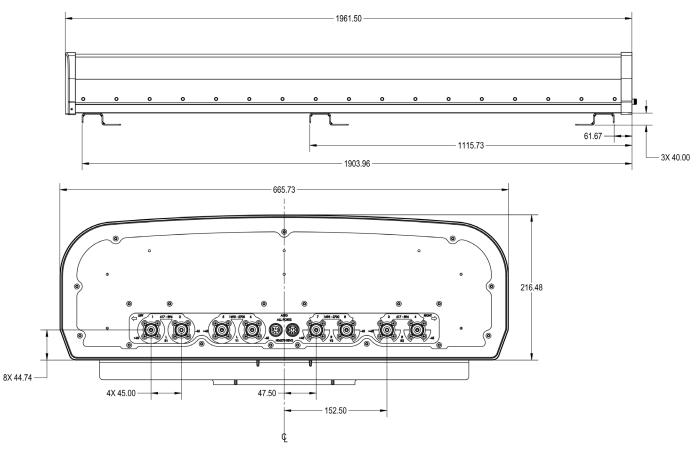


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#### **MECHANICAL SPECIFICATIONS**

Antenna	Length		mm (in)	1936 (76.2)	
	Width		mm (in)	660 (26.0)	
	Depth		mm (in)	214 (8.4)	
Net W	Net Weight - Antenna Only		kg (lbs)	40.8 kg (90 lbs)	
		km/h (mph)	161 (100)		
		Frontal	N (lbf)	1293 (291)	
	Lateral		N (lbf)	338 (76)	
Surviv	Survival Wind Speed		km/h (mph)	241 (150)	
	Туре			4.3-10 Female	
Conne	ector	Quantity		8	
		Position		Bottom	
Radome Color			ANSI 70 Gray		
Radome Material			UV Stabilized ABS or Hips		
Lightning Protection (Grounding Type)			Direct Ground		
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MOUNTING KITS The default mounting kit is included in the price of the antenna. Any other mounting kits are optional and must be ordered separately.

	MODEL NUMBER	DESCRIPTION	FITS PIPE DIAMETER	WEIGHT
DEFAULT MOUNTING KIT Shipped as standard and included in the price of the antenna	MKS10T02	3-Point, Scissor Tilt, Mounting & Downtilt Bracket Kit	50-115 mm (2.0-4.5 in)	9.3 kg (20.6 lbs)
OPTIONAL MOUNTING KIT Must be ordered separately	MKS10P02	3-Point Mounting Bracket Kit	50-115 mm (2.0-4.5 in)	6.4 kg (14.0 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.