

(2x) 617-906 | (2x) 1695-2700 MHz 65°

2449 mm

TWIN658LU000G-T

TWIN DUAL BAND | 8-PORT PANEL | XPOL | 65° | 2449 MM (96.4 IN)

	Frequency Range (MHz)	617-906	617-906	1695-2700	1695-2700	
2	Array	R 1	R 2	<mark> </mark> Y1	<mark> </mark> Y2	
WIEV	Connector	1-2	3-4	5-6	7-8	
PRODUCT OVERVIEW	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	
	Azimuth Beamwidth (avg)	65°	65°	65°	65°	
	Electrical Downtilt	0-10°	0-10°	2-10°	2-10°	
	Dimensions	2449 x 666 x 216 mm (96.4 x 26.2 x 8.5 in)				

Frequency Range MHz Frequency Sub-Range MHz		(2x) 617-906					
		617-698	800-906				
Polarizatio	on		(2x) ±45°				
	Low Tilt	dBi	15.6	15.9	15.3		
	Mid Tilt	dBi	15.5	15.9	15.3		
Gain	High Tilt	dBi	15.4	15.8	15.1		
	Over all Tilts	dBi	15.5 ± 0.8	15.9 ± 0.5	15.3 ± 0.5		
	Max Gain	dBi	16.3	16.4	15.8		
Azimuth B	Beamwidth (3 dB)	degrees	73.1 ± 5.8	73.0 ± 5.7	69.6 ± 6.4		
Elevation Beamwidth (3 dB) de		degrees	11.5 ± 1.0	9.9 ± 0.7	8.7 ± 0.7		
Electrical Downtilt degrees		degrees	0-10				
Impedance Ohms		Ohms	50				
/SWR			1.5:1				
Passive Intermodulation dBm 3rd Order for 2x20 W Carriers (dBc)			< -110 (< -153)				
Front-to-Back Ratio ± 30° @ 180° from boresite		dB	> 32	> 32	> 32		
Upper Sidelobe Rejection 20° Sector Above Main Beam		dB	> 20	> 21	> 19		
Cross Polar Discrimination at Mechanical Boresight (0°)		dB	> 22	> 21	> 18		
Maximum Power Per Port Watts		Watts	500				
Interband/Intraband Isolation dB		dB	25/30	25/30	25/30		

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

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ELECTR	ICAL SPECIFICATIONS	Mid Band		<mark> </mark>	<mark> </mark>			
Frequency Range MHz Frequency Sub-Range MHz		MHz	(2x) 1695-2700					
		MHz	1695-1880	1850-1990	1920-2200	2300-2700		
Polarization			(2x) ±45°					
	Low Tilt	dBi	16.8	17.2	17.3	17.3		
	Mid Tilt	dBi	17.0	17.4	17.5	17.5		
Gain	High Tilt	dBi	17.1	16.9	17.2	17.1		
	Over all Tilts	dBi	17.0 ± 0.6	17.2 ± 0.6	17.4 ± 0.7	17.4 ± 0.9		
	Max Gain	dBi	17.6	17.8	18.1	18.3		
Azimuth Beamwidth (3 dB)		degrees	63.1 ± 9.7	63.1 ± 12.1	52.1 ± 15.0	51.8 ± 7.4		
Elevation Beamwidth (3 dB)		degrees	6.2 ± 0.5	5.8 ± 0.3	5.4 ± 0.5	4.7 ± 3.2		
Electrical Downtilt		degrees	2-10					
Impedance		Ohms	50					
VSWR			1.5:1					
		dBm (dBc)	< -110 (< -153)					
Front-to-Back Ratio ± 30° @ 180° from boresite		dB	> 35	> 38	> 37	> 34		
Upper Sidelobe Rejection 20° Sector Above Main Beam		dB	> 16	> 16	> 16	> 16		
Cross Polar Discrimination at Mechanical Boresight (0°)		dB	> 14	> 15	> 13	> 11		
Maximum Power Per Port Watts		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	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 Replaceable Unit			No	



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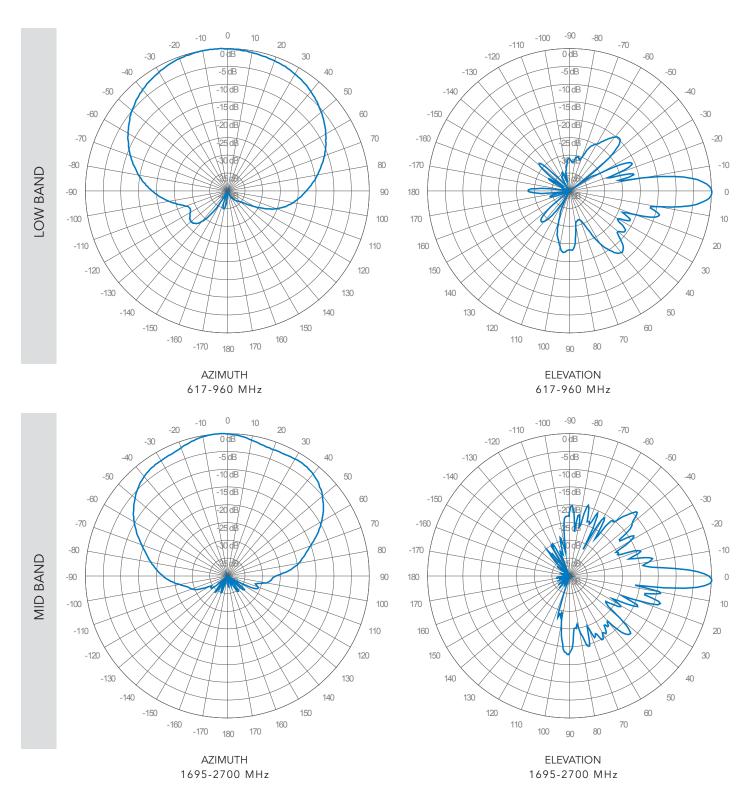


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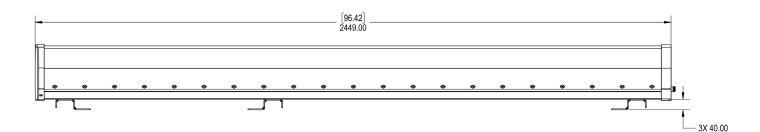
65° 2449 mm

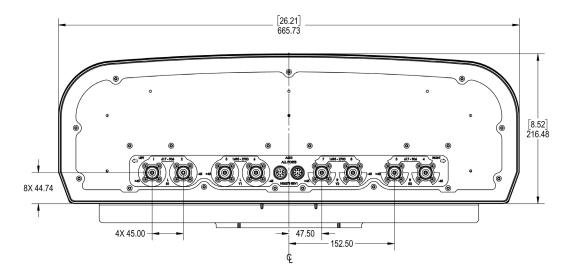
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MECHANICAL SPECIFICATIONS

Antenna	Length		mm (in)	2449 (96.4)		
	Width		mm (in)	666 (26.2)		
An	Depth		mm (in)	216 (8.5)		
Net W	Net Weight - Antenna Only		kg (lbs)	44 (98)		
Calculat		Calculation	km/h (mph)	161 (100)		
Windl	oad	Frontal	N (lbf)	1671 (376)		
		Lateral	N (lbf)	436 (98)		
Surviv	Survival Wind Speed		km/h (mph)	241 (150)		
		Туре		4.3-10 Female		
Conne	nector	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.

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