

76.4 IN

(1x) 617-897 | (1x) 1695-2690 MHz

45°

500W

25/30

VARIABLE TILT

UAD456LU	J000G-T						
	LOW BAND	MID BAND					
Frequency Range (MH	:) (1x) 617-897	(1x) 1695-2690	_				
Array	R1	Y 1	_				
Connector	2 PORTS	2 PORTS	_				
Polarization	XPOL	XPOL					
Azimuth Beamwidth (av	g) 45°	45°	_				
Electrical Downtilt	0-10°	2-10°					
Total Connector Count	4 PC	4 PORTS					
Connector Type	4.3-10 FEMAL	4.3-10 FEMALE LONG-NECK					
Dimensions	1939 x 531 x 221 mm (76.4 x 20.9 x 8.7 in)						

ELECTR	ICAL SPECIFICATIONS	Low Band	R1				
Frequency	y Range	MHz		617-897			
Frequency	y Sub-Range	MHz	617-698	698-798	800-897		
Polarizatio	on		±45°				
	Low Tilt	dBi	16.0	16.1	15.7		
Gain	Mid Tilt	dBi	15.8	16.0	15.6		
	High Tilt	dBi	15.1	15.4	15.2		
	Over all Tilts	dBi	15.7 ± 0.6	15.9 ± 0.5	15.6 ± 0.5		
Azimuth Beamwidth (3 dB)		degrees	47.7 ± 2.9	41.2 ± 3.0	36.1 ± 2.0		
Elevation Beamwidth (3 dB) degrees		degrees	14.0 ± 1.0 12.1 ± 1.2		10.5 ± 1.0		
Electrical Downtilt degrees		degrees	0-10				
Impedanc	ce	Ohms		50Ω			
VSWR				1.5:1			
Passive In 3rd Order	termodulation for 2x20 W Carriers	dBm (dBc)	< -110 (< -153)				
Front-to-E ± 30° @ 1	ck Ratio 0° from boresite dB > 24.2		> 24.2	> 21.7	> 20.8		
Upper Sidelobe Rejection 20° Sector Above Main Beam		dB	> 17.4	> 17.6	> 14.0		
Cross Pola at Mechar	ss Polar Discrimination Acchanical Boresight (0°)		> 19.7	> 22.2	> 20.1		

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

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25/30

Maximum Power Per Port

Interband/Intraband Isolation

Watts

dB

CONNECTING PEOPLE + TECHNOLOGY

25/30



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ELECTRI	CAL SPECIFICATIONS	Mid Band	<mark> </mark>					
Frequency	y Range	MHz	1695-2690					
Frequency	y Sub-Range	MHz	1695-1880	1920-2200	2300-2690			
Polarizatio	on		±45°					
. .	Low Tilt	dBi	17.5	17.6	17.2	18.0		
	Mid Tilt	dBi	17.8	17.8	17.4	18.3		
Gain	High Tilt	dBi	18.1	17.7	17.3	18.1		
	Over all Tilts	dBi	17.8 ± 0.5	17.7 ± 0.4	17.3 ± 0.6	18.2 ± 0.5		
Azimuth B	Beamwidth (3 dB)	degrees	40.9 ± 5.0	49.3 ± 3.5	49.2 ± 3.4	36.8 ± 5.7		
Elevation Beamwidth (3 dB)		degrees	6.0 ± 0.3	5.6 ± 0.2	5.3 ± 0.5	4.3 ± 0.4		
Electrical Downtilt degrees			2-10					
Impedanc	e	Ohms	ns 50Ω					
VSWR				1.	5:1			
Passive Int 3rd Order	termodulation for 2x20 W Carriers	dBm (dBc)	< -110 (< -153)					
Front-to-B ± 30° @ 1	Back Ratio 80° from boresite	dB	> 27.8 > 34.0 > 34.8		> 34.8	> 27.2		
Upper Sidelobe Rejection 20° Sector Above Main Beam		dB	> 16.7	> 15.5	> 15.9	> 15.8		
Cross Polar Discrimination at Mechanical Boresight (0°)		dB	> 21.1	> 21.8	> 20.0	> 16.7		
Maximum	Power Per Port	Watts		30	0W			
Interband	/Intraband Isolation	dB	25/30	25/30	25/30	25/30		
Interband/Intraband Isolation dB		ав	25/30	25/30	25/30	25/30		

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

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

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MECHANICAL SPECIFICATIONS

a	Length		mm (in)	1939 (76.4)		
ntenr	Width		mm (in)	531 (20.9)		
Ā	ā Depth		mm (in)	221 (8.7)		
Net Weight - Antenna Only		kg (lbs)	26.8 (59-)			
Calculation		km/h (mph)	161 (100)			
Windle	oad	Frontal	N (lbf)	858 (193)		
	Lateral		N (lbf)	191 (43)		
Survival Wind Speed		km/h (mph)	241 (150)			
Туре		Туре		4.3-10 Female		
Conne	ctor Quantity			4		
	Position		Bottom			
Radome Color			ANSI 70 Gray			
Radome Material			UV Stabilized ABS or Hips			
Lightning Protection (Grounding Type)			Direct Ground			



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5	ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
γ μαγο	R 1	617-897	1-2	4.3-10 Female Long Neck
ARRA	<mark> </mark>	1695-2690	3-4	4.3-10 Female Long Neck



The illustration is not shown to scale.

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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)	21.26 kg (47 lbs)
OPTIONAL MOUNTING KIT Refer to ordering options	MKS10P02	3-Point Mounting Bracket Kit	50-115 mm (2.0-4.5 in)	26.53 kg (58 lbs)



The antennas shown in the mounting kit illustrations above are generic representations and may not resemble the antenna described within this data sheet.

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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HOW TO READ THE MODEL NUMBER Each letter and number has meaning.

PORT COUNT	AZIMUTH BEAMWIDTH	LENGTH	OPER FREQ	ATING JENCY	VARIATION	TILT TYPE	ORDERING OPTION
QUAD	45	6	L	U	000	G	-T -P
4 PORT	45°	Approximately 6 Feet	617-897 MHz	1695-2690 MHz	Original Variation Variations of this antenna or simiilar antenna models may exist. These characters are used to differentiate similar antenna models.	Remote Variable Tilt for 3GPP / AISG v2.0	The -T at the end of the model number indicates that the antenna is shipped standard with the 3-POINT SCISSOR TILT MOUNTING & DOWNTILT BRACKET KIT (MKS10T02). To order the antenna with the 3-POINT MOUNTING BRACKET KIT (MKS10P02) replace -T with -P when ordering. If -P or -T is not added, the bracket kit can be added as a separate line item, or the antenna shipped without a bracket. Refer to the ordering options for more detail.

ORDERING OPTIONS Select from the following ordering options

SELECT MOUNTING KIT	ORDER MODEL NUMBER
ANTENNA ONLY - NO MOUNTING KIT	QUAD456LU000G
ANTENNA WITH MKS10P02 MOUNTING KIT 3-Point Mounting Bracket Kit	QUAD456LU000G-P
ANTENNA WITH MKS10T02 MOUNTING KIT 3-Point Scissor Tilt Mounting & Downtilt Bracket Kit	QUAD456LU000G-T

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📕 R1, 0° TILT -90 10 10 dF -150 -70 -160 -170 -80 80 -90 180 90 -100 100 170 -110 110 160 20 120 -120 130 140 130 120 -150 150 -160 160 110 70 -170 170 100 180 90 80 Elevation Azimuth

R1, 5° TILT





R1, 10° TILT



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-80

-90

-100



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Y1, 2° TILT 0 -90 10 100 -10 dE -150 -70 -160 -170 -80 80 -90 180 90 -100 100 170 -110 110 160 20 120 -120 130 140 130 120 -150 150 -160 160 110 70 -170 170 100 180 90 80 Elevation Azimuth

Y1, 5° TILT





Y1, 10° TILT



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