

TRI BAND | HEX PORT | PANEL ANTENNA | XXX-POL | 65° / 65° / 65° | 13.8 / 16.8 / 16.8 DBI | VARIABLE TILT

Features

- AWS-3 Ready
- 4x4 MIMO high band compatible
- Patented internal RET actuator adds no additional length to the antenna
- Can be ordered with a Multi-Device Dual Unit (MDDU) with two separate inputs for independent control of each band

Connector Description

The antenna has six (6) connectors located at the bottom, each marked with a colored ring.

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Low Banc	Low Band		696-960 MHz (2x) 7/16-DIN Femal			nale			
Mid Banc	d #1 📕 B1		1695-2180 MHz			(2x) 7/16-DIN Female			
Mid Banc	Mid Band #2		1695-2180 MHz			(2x) 7/16-DIN Female			
Electrical Characteristics			R 1			B 1 B 2			
Frequency Bands (MHz)		696-960 MHz			(2x) 1695-2180 MHz				
		696-806	806-960	1695-1	850	1850-1990	210	00-2180	
Polarizati	on		±45°			(2x) ±45°			
Horizontal Beamwidth		72°	68°	70	D	67°		65°	
Vertical B	eamwidth		19°	16°	8.3	0	7.5°		7.0°
Gain			12.9 dBi	13.8 dBi	15.8	dBi	16.5 dBi	16	6.8 dBi
Electrical	Downtilt		0-14°			0-10°			
Impedan	ce		50Ω			50Ω			
VSWR			< 1.5:1			< 1.5:1			
Upper Sic	delobe Suppression		> 16 dB Typical			> 15 dB Typical			
Front-to-Back Ratio			> 30 dB			> 28 dB			
In-Band Isolation			> 25 dB			> 28 dB			
Isolation Between Ports			> 30 dB > 30 dB			> 30 dB			
IM3 (2x20W carrier)			< -153 dBc			< -153 dBc			
Input Power			(2x) 500 W (4x) 250 W						
Diplexed			No						
Lightning Protection			Direct Ground						
Operating Temperature			-40° to +60° C (-40° to +140° F)						
Mecha	anical Characte	eristics							
Dimensio	ns (Length x Width x	Depth)	1	1298 x 305 x 180 mm			51.1 x 12.0	x 7.1	in
Weight	Antenna Only			13.5 kg				29.8	lbs
	Antenna with Mounting Bracket Kit MKS09P01			16.2	kg	35.7 lbs			lbs
	Antenna with Mounting Bracket Kit MKS09T01			18.0	kg	39.7 lbs		lbs	
Survival Wind Speed				241 km				150	mph
Wind Loads Fro		Front		480	N			108	lbf
(160 km/ł	nr or 100 mph)	Side		284	N			64	lbf
			1		I				

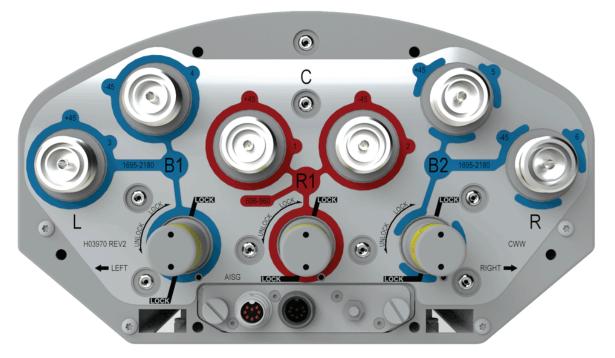


Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to products may be made without notice.



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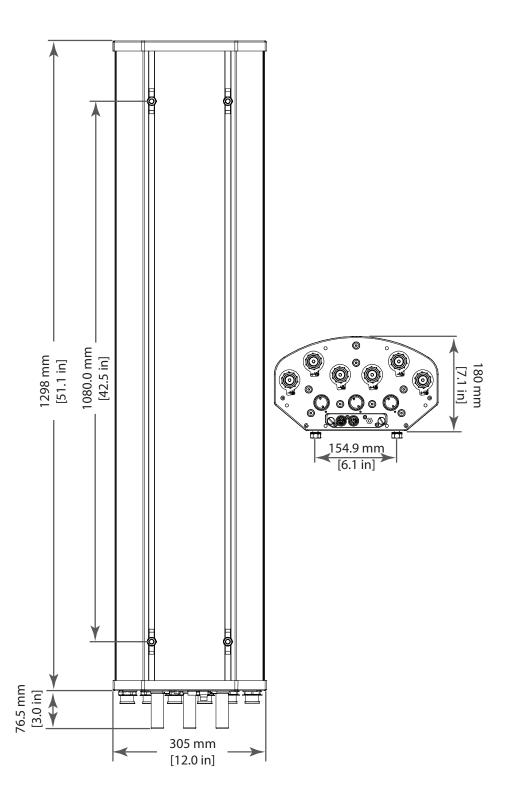
Electrical Downtilt Co	ntrol				
Manual Electrical Tilt (MET) Control	Electrical downtilt for each band can be controlled separately. A colored knob at the end of the tilt indicator allows change of the tilt without need of a tool. The knob color is identical to the corresponding connector ring color. To access the knob, remove the cap by turning it counter-clockwise. It is re-installed by opposite rotation. Do not remove the transparent cap(s) from the antenna.				
Remote Electrical Tilt (RET) Control Electrical downtilt for each band can be controlled separately. The remote control of the electric managed by either a Multi-Device Control Unit (MDCU) or a Multi-Device Dual Unit (MDDU) inse the bottom of the antenna. A single actuator individually controls the tilt of each band (no need chain cables between the bands). This module does not add any additional length to the antenna control, the transparent caps must be in place and locked. The tilt angle indicators always remain and the antenna still has manual tilt control (manual override). Do not remove the transparent cap(s) from the antenna.					
RET Actuators (Units are Field Replaceable)	Multi-Device Control Unit (MDCU) 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.	Multi-Device Dual Unit (MDDU) Allows two separate RET Controllers to independently drive the RETs in Amphenol antennas with factory installed motors (for antenna sharing). The MDDU is factory installed. Refer to Ordering Options for unique AISG port configirations			
		Port A Port B			
		Two separate inputs for independent control of each band			



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Antenna Ordering Options

Select Electrical		Select RET Ac	Antenna		
Tilt Type	Actuator Description	Port A	Port B	Model Number	
Manual Electrical Tilt				HEX654CW0000M	
Remote Electrical Tilt AISG v2.0 / 3GPP with an MDCU RET Actuator	The MDCU (Multi-Device Control Unit) 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.			HEX654CW0000G	
Remote Electrical Tilt	The MDDU (Multi-Device Dual Unit) allows two separate RET Controllers to independently drive the RETs in Amphenol antennas with factory installed motors (for antenna sharing). The MDDU is factory installed.	R1 696-960 MHz	B2 / B1 1695-2180 / 1695-2180 MHz	HEX654CW0000L	
AISG v2.0 / 3GPP with an MDDU RET		B1 1695-2180 MHz	B2 / R1 1695-2180 / 696-960 MHz	HEX654CW000L1	
Actuator		B2 1695-2180 MHz	B1 / R1 1695-2180 / 696-960 MHz	HEX654CW000L2	

Mounting Kit Ordering Options All mounting bracket kits are ordered separately unless otherwise indicated.

Mounting Options	Part Number	Image	Fits Pipe Diameter	Weight
2-Point Mounting Bracket Kit	MKS09P01		50-115 mm 2.0-4.5 in	2.7 kg 6 lbs
2-Point Mounting & Downtilt Bracket Kit	MKS09T01		50-115 mm 2.0-4.5 in	4.5 kg 10 lbs

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