

CWWX063X24x00

Tri Band | Panel Antenna | XXX-Pol | 65° / 67° / 67° | 16.8 / 17.3 / 17.3 dBi | Variable Tilt

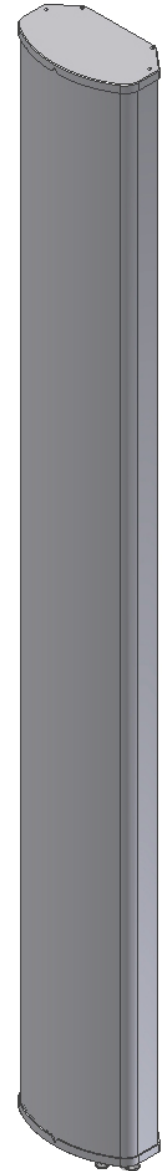
- Tri band, hex-port panel antenna with variable electrical tilt
- 4x4 MIMO high band compatible
- Patented internal RET actuator adds no additional length to the antenna
- Can be ordered with a Multi-Device Dual Unit (MDDU) with two separate inputs for independent control of each band. Ideal for antenna sharing.
- Overall length less than 96"

Ordering Options	Model Number
When ordering, replace "x" in the model number with one of the options listed below.	
Manual Electrical Tilt	CWWX063X24M00
Remote Electrical Tilt AISG v2.0 / 3GPP with an MDCU RET Actuator	CWWX063X24G00
Remote Electrical Tilt AISG v2.0 / 3GPP with an MDDU RET Actuator	CWWX063X24L00

Mounting bracket kits and other accessories are ordered separately. See options on the following page(s).

Electrical Characteristics	696-960 MHz		(2x) 1710-2170 MHz		
Frequency Bands (MHz)	696-806	806-960	1710-1880	1850-1990	1900-2170
Polarization	±45°		(2x) ±45°		
Horizontal Beamwidth	70°	65°	70°	67°	66°
Vertical Beamwidth	7.4°	6.9°	7°	6.5°	6°
Gain	16.3 dBi	16.8 dBi	16.4 dBi	17.0 dBi	17.3 dBi
Electrical Downtilt	0-10°		0-10°		
Impedance	50Ω		50Ω		
VSWR	< 1.5:1		< 1.5:1		
Upper Sidelobe Suppression	> 18 dB Typical		> 17 dB Typical		
Front-to-Back Ratio	> 25 dB		> 25 dB		
In-Band Isolation	> 25 dB		> 30 dB		
Isolation Between Ports	> 30 dB		> 30 dB		
IM3 (2x20W carrier)	< -153 dBc		< -153 dBc		
Input Power	(2x) 500 W		(4x) 250 W		
Total Number of Connectors	Antenna has 6 connectors located at the bottom				
Connectors Per Band	696-960 MHz	(2x) 7/16-DIN Female			
	1710-2170 MHz	(2x) 7/16-DIN Female			
	1710-2170 MHz	(2x) 7/16-DIN Female			
Diplexed	No				
Lightning Protection	Direct Ground				
Operating Temperature	-40° to +60° C (-40° to +140° F)				




Mechanical Characteristics		696-960 MHz		(2x) 1710-2170 MHz	
Dimensions (Length x Width x Depth)		2421 x 305 x 180 mm		95.3 x 12.0 x 7.1 in	
Weight without Mounting Brackets: MET		18.0 kg		39.6 lbs	
Weight without Mounting Brackets: RET		18.3 kg		40.3 lbs	
Survival Wind Speed		241 km/hr		150 mph	
Wind Loads (160 km/hr or 100 mph)	Front	898 N		202 lbf	
	Side	531 N		120 lbf	



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.

CWWX063X24x00

Tri Band | Panel Antenna | XXX-Pol | 65° / 67° / 67° | 16.8 / 17.3 / 17.3 dBi | Variable Tilt

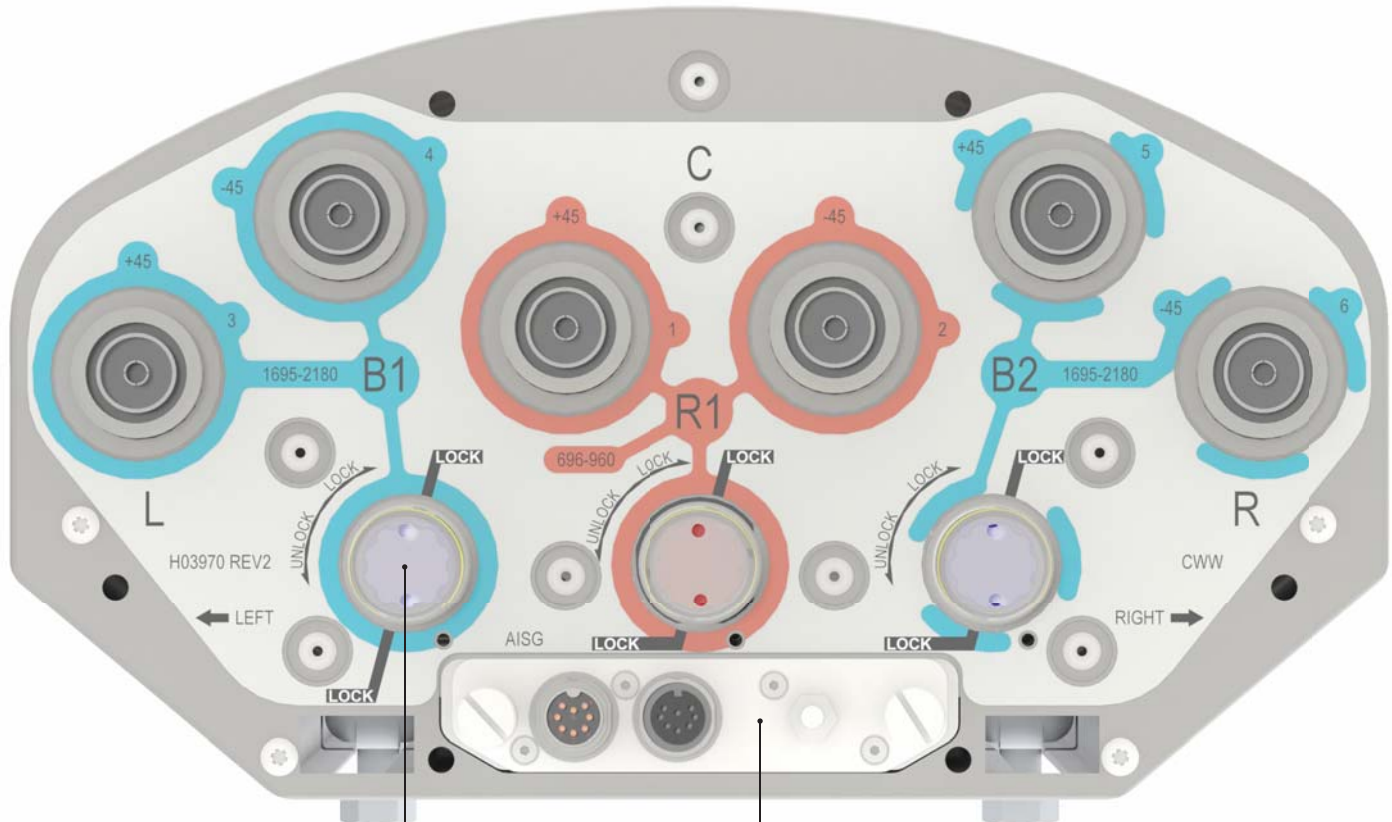
Electrical Downtilt Control				
Electrical downtilt for each band can be controlled separately. Tilt indicator(s) are covered by removable transparent cap(s).				
Manual Electrical Tilt (MET) Control	A colored knob at the end of the tilt indicator allows change of the tilt without need of a tool. The 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	The remote control of the electrical tilt is managed by either a Multi-Device Control Unit (MDCU) or a Multi-Device Dual Unit (MDDU) inserted in the bottom of the antenna. A single actuator individually controls the tilt of each band (no need for daisy chain cables between the bands). This module does not add any additional length to the antenna. For RET control, the transparent caps must be in place and locked. The tilt angle indicators always remain visible and the antenna still has manual tilt control (manual override).			
RET Actuator	Select one of the following RET actuators when ordering this antenna.			
	Multi-Device Control Unit (MDCU)	The MDCU 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. Refer to ordering options.		
	Multi-Device Dual Unit (MDDU)	The 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.		
Important Installation Instructions		In order to operate RET control, the transparent caps covering the tilt adjustment indicators must be engaged and locked. Do not cut them from the antenna.		
		Do not install the antenna with the connectors facing upward.		
Mounting Options	Part Number	Image	Fits Pipe Diameter	Weight
All mounting bracket kits are ordered separately unless otherwise indicated. Select from the options listed below.				
3-Point Mounting Bracket Kit	MKS09P02		50-115 mm 2.0-4.5 in	4.1 kg 9 lbs
3-Point Mounting & Downtilt Bracket Kit	MKS09T02		50-115 mm 2.0-4.5 in	6.4 kg 14 lbs

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.

CWWX063X24x00


Tri Band | Panel Antenna | XXX-Pol | 65° / 67° / 67° | 16.8 / 17.3 / 17.3 dBi | Variable Tilt

Bottom View of Antenna



Location of the MDCU or MDDU for RET Control (MDCU shown)

Tilt indicators covered by transparent caps.
Manual adjustment is accessed by removing the caps.
Knob colors are the same as the connectors.



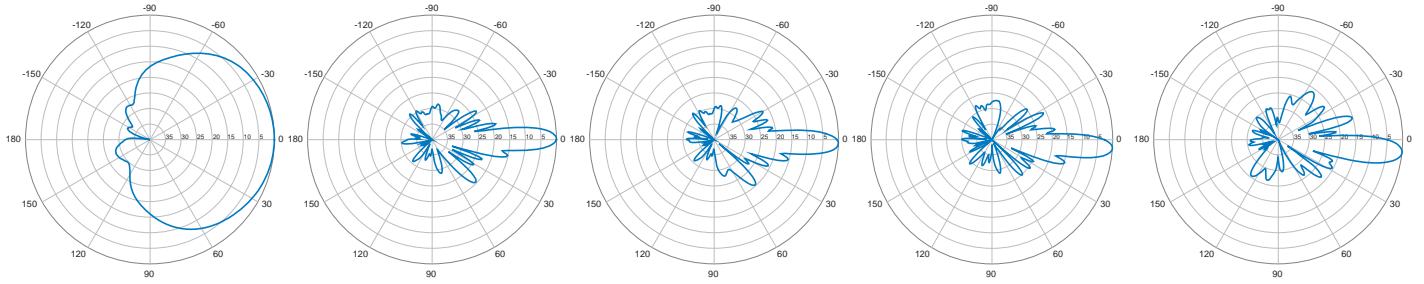
In order to operate RET control, the transparent caps covering the tilt adjustment indicators must be engaged and locked. Do not cut them from the antenna.

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.

CWWX063X24x00

Tri Band | Panel Antenna | XXX-Pol | 65° / 67° / 67° | 16.8 / 17.3 / 17.3 dBi | Variable Tilt

696-960 MHz



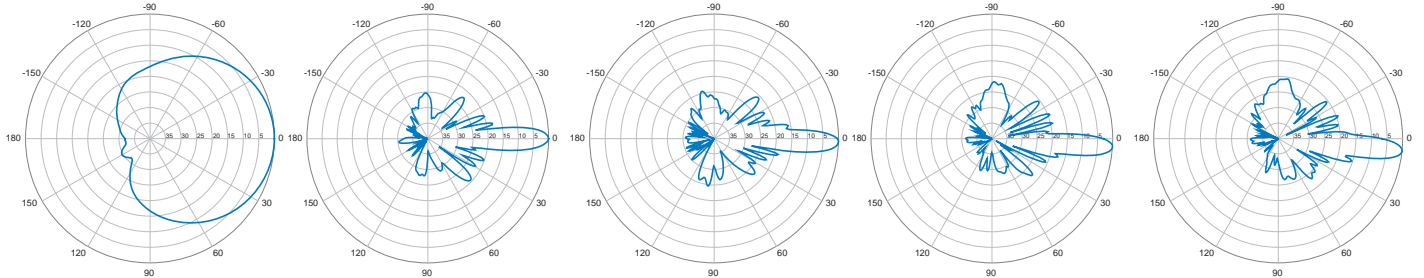
Horizontal | 750 MHz

0° | Vertical | 750 MHz

2° | Vertical | 750 MHz

4° | Vertical | 750 MHz

6° | Vertical | 750 MHz



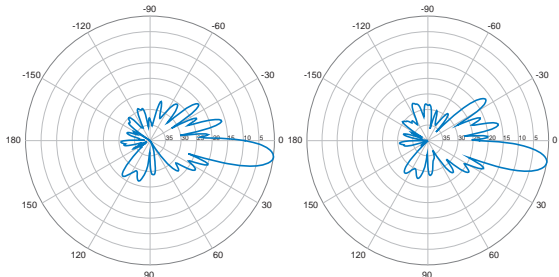
Horizontal | 850 MHz

0° | Vertical | 850 MHz

2° | Vertical | 850 MHz

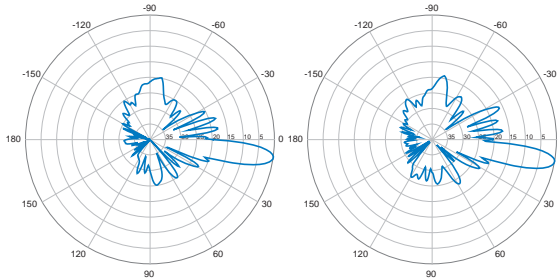
4° | Vertical | 850 MHz

6° | Vertical | 850 MHz



8° | Vertical | 750 MHz

10° | Vertical | 750 MHz



8° | Vertical | 850 MHz

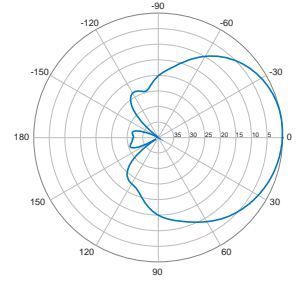
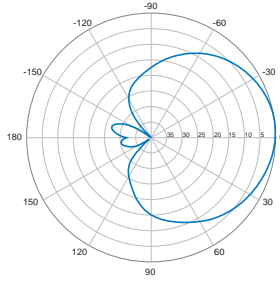
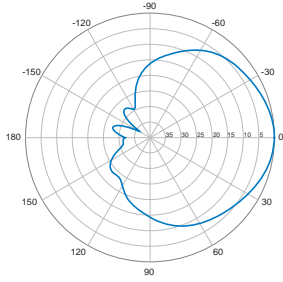
10° | Vertical | 850 MHz

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.

CWWX063X24x00

Tri Band | Panel Antenna | XXX-Pol | 65° / 67° / 67° | 16.8 / 17.3 / 17.3 dBi | Variable Tilt

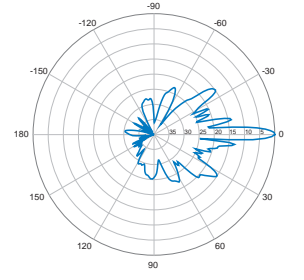
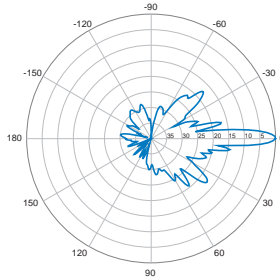
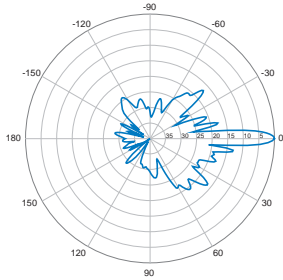
1710-2170 MHz



Horizontal | 1800 MHz

Horizontal | 1900 MHz

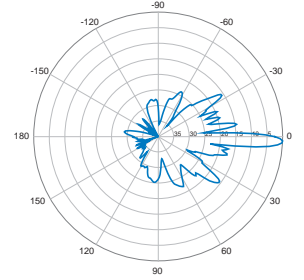
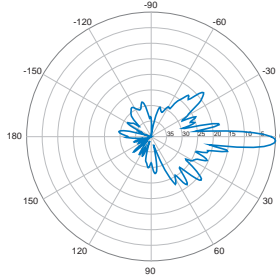
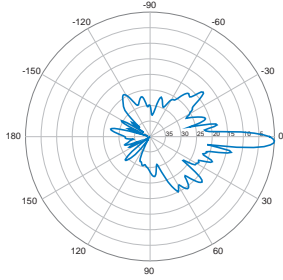
Horizontal | 2100 MHz



0° | Vertical | 1800 MHz

0° | Vertical | 1900 MHz

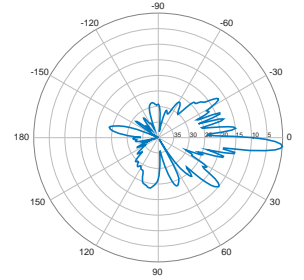
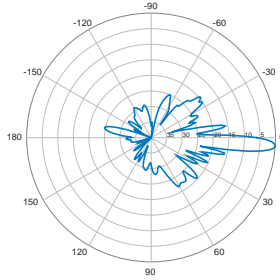
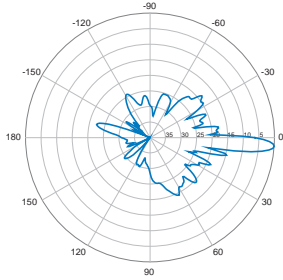
0° | Vertical | 2100 MHz



2° | Vertical | 1800 MHz

2° | Vertical | 1900 MHz

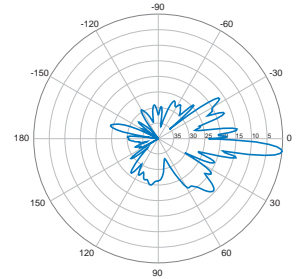
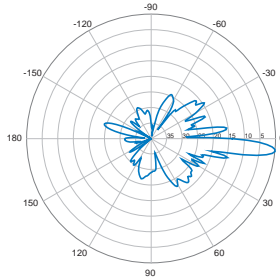
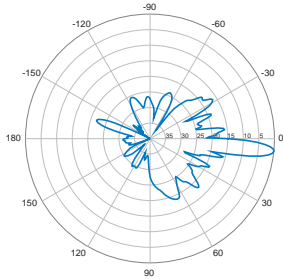
2° | Vertical | 2100 MHz



4° | Vertical | 1800 MHz

4° | Vertical | 1900 MHz

4° | Vertical | 2100 MHz



6° | Vertical | 1800 MHz

6° | Vertical | 1900 MHz

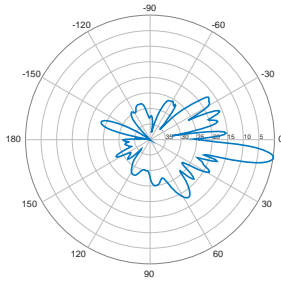
6° | Vertical | 2100 MHz

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.

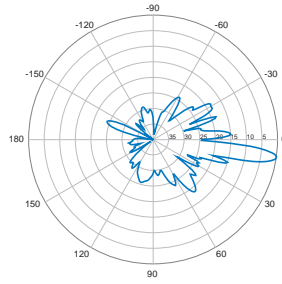
CWWX063X24x00

Tri Band | Panel Antenna | XXX-Pol | 65° / 67° / 67° | 16.8 / 17.3 / 17.3 dBi | Variable Tilt

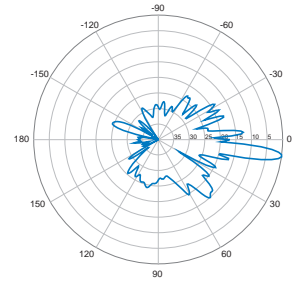
1710-2170 MHz



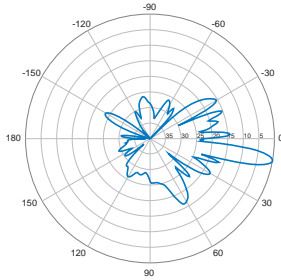
8° | Vertical | 1800 MHz



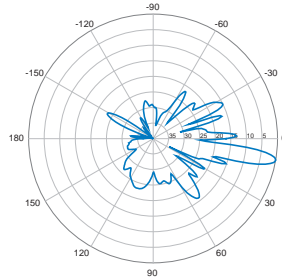
8° | Vertical | 1900 MHz



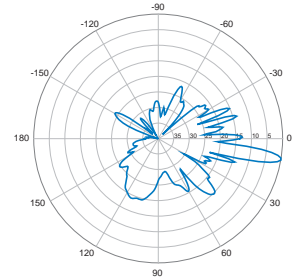
8° | Vertical | 2100 MHz



10° | Vertical | 1800 MHz



10° | Vertical | 1900 MHz



10° | Vertical | 2100 MHz

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.