

## WBX018X24x050

Single Band | Panel Antenna | X-Pol | 18° | 23.8 dBi | Variable Tilt

- Single Band, X-Pol, variable tilt, panel antenna
- Variable electrical tilt range of 2°-10°
- Patented internal RET actuator adds no additional length to the antenna
- Available in Manual and Remote AISG v1.1 or 3GPP/AISG v2.0 versions

Ordering Options	Model Number
When ordering, replace "x" in the model number with one of the options listed below.	
Manual Electrical Tilt	WBX018X24M050
Remote Electrical Tilt AISG v1.1	WBX018X24R050
Remote Electrical Tilt AISG v2.0 / 3GPP	WBX018X24R050G

Mounting bracket kits and other accessories are ordered separately unless otherwise indicated.

Electrical Characteristics	1710-2170 MHz		
Frequency Bands	1710-1880 MHz	1850-1990 MHz	1900-2170 MHz
Polarization	±45°		
Horizontal Beamwidth	20°	19°	18°
Vertical Beamwidth	4.9°	4.6°	4.3°
Gain	22.8 dBi	23.3 dBi	23.8 dBi
Electrical Downtilt	2-10°		
Impedance	50Ω		
VSWR	< 1.5:1		
Upper Sidelobe Suppression	< -18 dB		
Front-to-Back Ratio	> 30 dB		
In-Band Isolation	> 30 dB		
IM3 (2x20W carrier)	< -153 dBc		
Input Power	160 W		
Connectors, Type, Location	2 Connectors / 7/16-DIN Female / Bottom		
Diplexed	No		
Lightning Protection	Direct Ground		
Operating Temperature	-40° to +60° C (-40° to +140° F)		



Mechanical Characteristics			
Dimensions (Length x Width x Depth)		1990 x 583 x 80 mm	78.3 x 23.0 x 3.1 in
Weight without Mounting Brackets		22.0 kg	48.5 lbs
Survival Wind Speed		201 km/hr	125 mph
Wind Loads (160 km/hr or 100 mph)	Front	1530 N	344 lbf
	Side	206 N	46 lbf



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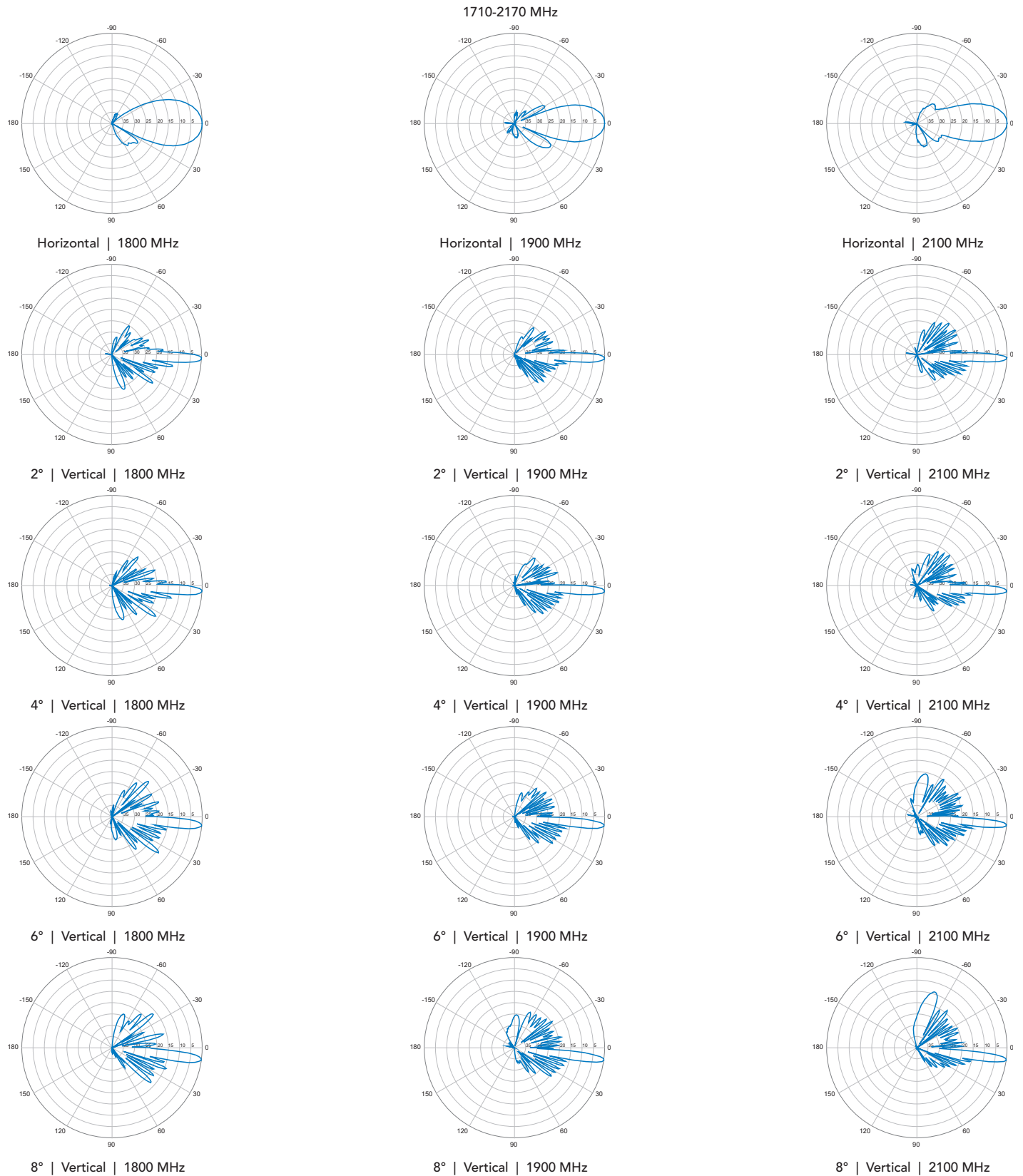
Electrical Downtilt Control				
Electrical downtilt can be controlled with the tilt indicator knob located at the bottom face of antenna.				
Manual Electrical Tilt (MET) Control	A knob at the end of the tilt indicator allows change of the tilt without need of a tool.			
Remote Electrical Tilt (RET) Control	The remote control of the electrical tilt is managed by an internal RET module totally inserted at the bottom of the antenna. This module does not add any additional length at the bottom of the antenna. The tilt angle indicator always remains visible and the antenna still has manual tilt control (manual override).			
RET Module	The RET module is factory installed and does not need to be ordered separately.			
	Part Number for AISG v1.1 protocol:	RETU-CA01	One unit installed in WBX018X24R050	
	Part Number for 3GPP/AISG v2.0 protocol:	RETU-CG01	One unit installed in WBX018X24R050G	
Important Installation Instructions 	Do not install the antenna with the connectors facing upward.			
Mounting Options	Part Number	Image	Fits Pipe Diameter	Weight
The below mounting kit is included with the antenna and does not need to be ordered separately. Due to size, this antenna cannot be mechanically downtilted.				
2-Point Mounting Bracket Kit (Included)	MKS07P01		40-115 mm 1.6-4.5 in	2.9 kg 6.5 lbs

Bottom View of Antenna	Dimensions
<p><b>NO IMAGE AVAILABLE</b></p> <p><b>COMING SOON</b></p>	<p><b>NO IMAGE AVAILABLE</b></p> <p><b>COMING SOON</b></p>

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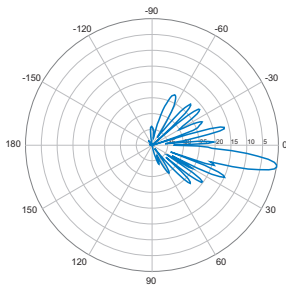
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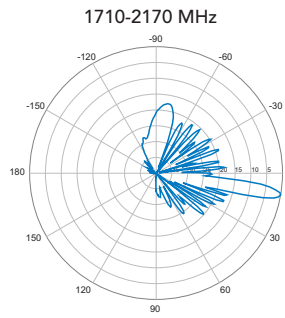
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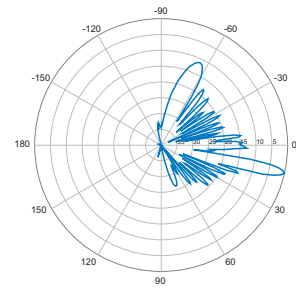
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10° | Vertical | 1800 MHz



10° | Vertical | 1900 MHz



10° | Vertical | 2100 MHz

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