

WBX033T20x000

Twin Band | Panel Antenna | 2x X-Pol | 33° / 33° | 20.0 / 20.0 dBi | Variable Tilt

- Twin band, 2x X-Pol (Quad-Pol), variable tilt, panel antenna
- Independent variable electrical tilt range 0°-10° / 0°-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		WBX033T20M000	
Remote Electrical Tilt AISG v1.1		WBX033T20R000	
Remote Electrical Tilt AISG v2.0 / 3GPP		WBX033T20R000G	
Mounting bracket kits and other accessories are ordered separately.			
Electrical Characteristics		2 x 1710-2170 MHz	
Frequency Bands		1710-1880 MHz	1850-1990 MHz
Polarization		2 x ±45° (Quad-Pol)	
Horizontal Beamwidth		37°	33°
Vertical Beamwidth		8°	7.5°
Gain		19.0 dBi	20.0 dBi
Electrical Downtilt		0-10°	
Impedance		50Ω	
VSWR		< 1.4:1	
Upper Sidelobe Suppression		≥ 18 dB	
Front-to-Back Ratio (±15° from 180°)		> 30 dB	
Inter-port Isolation	at 0°	> 25 dB	
	all other tilts	> 28 dB	
IM3 (2x20W carrier)		< -153 dBc	
Input Power		250 W	
Total Number of Connectors		Antennas has 4 connectors located at the bottom	
Connectors Per Band, Type, Location	1710-2170 MHz	2 Connectors / 7/16-DIN Female / Bottom	
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Diplexed		No	
Lightning Protection		Direct Ground	
Operating Temperature		-40° to +60° C (-40° to +140° F)	
Mechanical Characteristics			
Dimensions (Length x Width x Depth)		1353 x 558 x 100 mm	53.3 x 22.0 x 3.9 in
Weight without Mounting Brackets	MET	19.0 kg	41.9 lbs
	RET	19.3 kg	42.5 lbs
Survival Wind Speed		201 km/hr	125 mph
Wind Loads (160 km/hr or 100 mph)	Front	922 N	207 lbf
	Side	165 N	37 lbf

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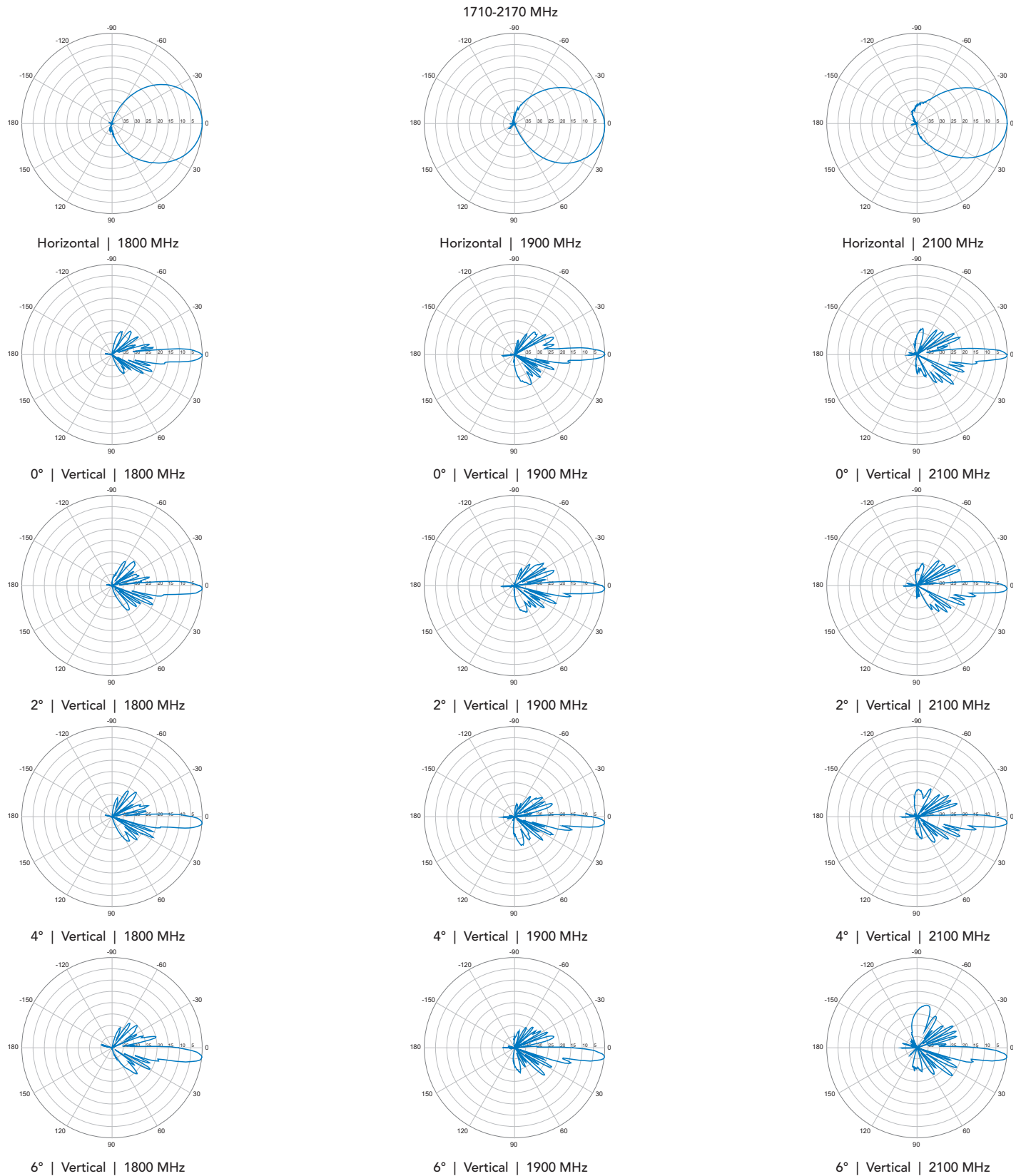
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Electrical Downtilt Control				
Electrical downtilt for each band can be controlled separately. Tilt indicator(s) are covered by removable transparent cap(s).				
Manual Electrical Tilt (MET) Control	A colored knob at the end of the tilt indicator 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 a module (MDCU) totally inserted at the bottom of the antenna. One single module controls individually the tilt of each band (no need of daisy chain cables between the bands). This module does not add any additional length at the bottom of the antenna. For RET control, the transparent cap must be in place and locked. 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:	MDCU-A0000	One unit installed in WBX033T20R000	
	Part Number for 3GPP/AISG v2.0 protocol:	MDCU-G0000	One unit installed in WBX033T20R000G	
Important Installation Instructions	 <p>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.</p> <p>Do not install the antenna with the connectors facing upward.</p>			
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.				
2-Point Mounting Bracket Kit	MKS04P01		40-115 mm 1.6-4.5 in	2.6 kg 5.8 lbs
2-Point Mounting & Downtilt Bracket Kit	MKS04T02		40-115 mm 1.6-4.5 in	3.9 kg 8.5 lbs

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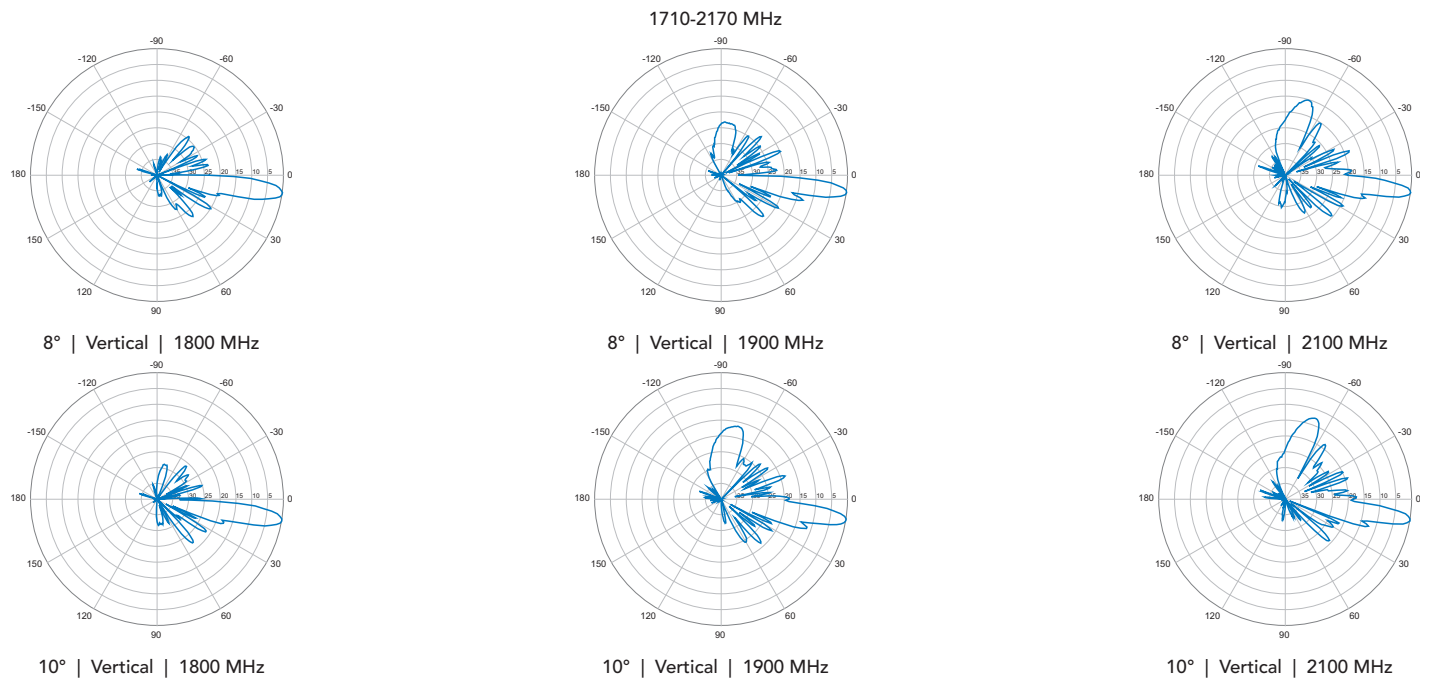
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