

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

- Twin beam, twin band, 2x X-Pol, variable tilt, panel antenna
- Variable electrical tilt range of 2°-10° / 2°-10°
- Patented internal RET actuator adds no additional length to the antenna
- Available in Manual and Remote AISG1.1 or 3GPP/AISG2.0 versions
- Consists of two X-pol antennas physically angled $\pm 30^{\circ}$ from antenna center

Ordering Options		Madal Number						
Ordering Options								
	ce x in the model hu	mber with one of the options listed below.						
Manual Electrical Tilt		WBX033S20M000						
Remote Electrical Tilt AISG v1.1 Remote Electrical Tilt AISG v2.0 / 3GPP		WBX033S20R000 WBX033S20R000G						
		2 x 1710-2170 MHz						
Electrical Characteristics								
Frequency Bands								
Polarization		2 x ±45°						
Horizontal Beamwidth (-3 dB)		33°		3°	3	3°		
Horizontal Beamwidth (-10 dB)		60°	6	0°	6)°		
Vertical Beamwidth		7°	7	70	7	0		
Beamwidths		Antenna consists of two (2) antennas physically angled ±30° from antenna cente						
Gain		19.0 dBi	19.5	5 dBi	20.0	dBi		
Electrical Downtilt		2-10°						
Impedance		50Ω						
VSWR		< 1.5:1						
Upper Sidelobe Suppression (0° to 20° above main beam)		18 dB						
Azimuth Sidelobe Suppression (±90° from boresite)		30 dB						
Front-to-Back Ratio		> 30 dB						
Isolation Between Ports		> 30 dB						
Beam-to-Beam Isolation		30 dB						
IM3 (2x20W carrier)		< -153 dBc						
Input Power		300 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		DC Chassis						
Operating Temperature		-40° to +60° C (-40° to +140° F)						
Mechanical Characteristics								
Dimensions (Length x Width x Depth)		1321 x 521 x 178	mm	52.0 >	(21.0 x 7.0	in		
Weight without Mounting Brackets		20	kg		44.1	lbs		
Survival Wind Speed		201	km/hr		125	mph		
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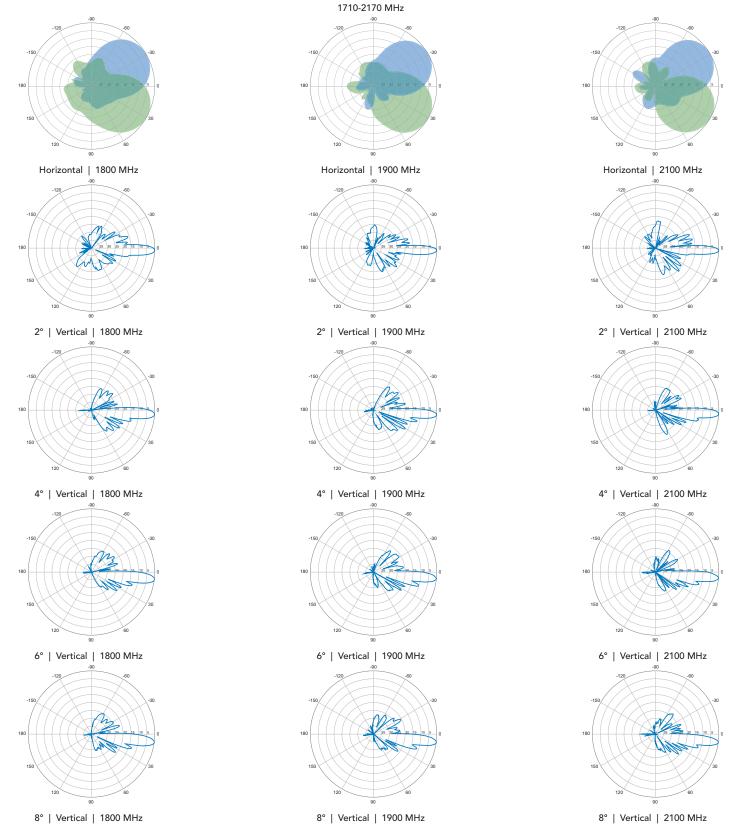


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Electrical Downtilt Control							
Electrical downtilt for each antenna array	can be controlled separately. The t	wo tilt indicator(s) are covered	by removable transparent cap(s).			
Manual Electrical Tilt (MET) Control	A colored knob at the end of 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 WBX033S20R000						
	Part Number for 3GPP/AISG v2.0 protocol: MDCU-G0000 One unit installed in WBX033S20R000G						
Important Installation Instructions	ing the tilt adjustment indicator	s must be engaged and					
	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 t	he antenna and does not need to k	be ordered separately. Due to	size, this antenna cannot be me	echanically downtilted.			
Mounting Bracket Kit	MKS03P01	NO IMAGE AVAILABLE COMING SOON	40-115 mm 1.6-4.5 in	4 kg 9 lbs			

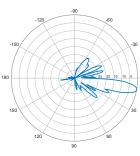


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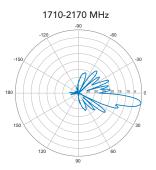




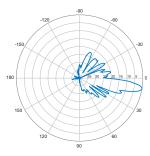
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10° | Vertical | 1800 MHz







10° | Vertical | 2100 MHz