

WWX085X13x00

Twin Band | Panel Antenna | 2x X-Pol | 85° / 85° | 15.8 / 15.8 dBi | Variable Tilt

- Twin band, 2x X-Pol (Quad-Pol), variable tilt, panel antenna
- Part of Amphenol's UNIVERSAL series of antennas featuring consistent form factors for future-proofing
- Patented internal RET actuator adds no additional length to the antenna
- Features an adjustable mounting bracket channel for custom mounting in any situation




Ordering Options		Model Number		
When ordering, replace “x” in the model number with one of the options listed below.				
Manual Electrical Tilt		WWX085X13M00		
Remote Electrical Tilt AISG v1.1		WWX085X13R00		
Remote Electrical Tilt AISG v2.0 / 3GPP		WWX085X13G00		
Mounting bracket kits and other accessories are ordered separately.				
Electrical Characteristics		2 x 1710-2170 MHz		
Frequency Bands		1710-1880 MHz	1850-1990 MHz	1900-2170 MHz
Polarization		2 x ±45° (Quad-Pol)		
Horizontal Beamwidth		85°	83°	80°
Vertical Beamwidth		8.3°	7.5°	7.0°
Gain		14.8 dBi	15.3 dBi	15.8 dBi
Electrical Downtilt		0-10°		
Impedance		50Ω		
VSWR		< 1.5:1		
Upper Sidelobe Suppression		< -18 dB Typical		
Front-to-Back Ratio		> 28 dB		
In-Band Isolation		> 25 dB		
Isolation Between Ports		> 30 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 / Blue Rings		
	1710-2170 MHz	2 Connectors / 7/16-DIN Female / Bottom / White Rings		
Diplexed		No		
Lightning Protection		Direct Ground		
Operating Temperature		-40° to +60° C (-40° to +140° F)		
Mechanical Characteristics				
Dimensions (Length x Width x Depth)		1298 x 305 x 180 mm	51.1 x 12.0 x 7.1 in	
Weight without Mounting Brackets: MET		12.9 kg	28.5 lbs	
Weight without Mounting Brackets: RET		13.2 kg	29.2 lbs	
Survival Wind Speed		241 km/hr	150 mph	
Wind Loads (160 km/hr or 100 mph)	Front	480 N	108 lbf	
	Side	284 N	64 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.

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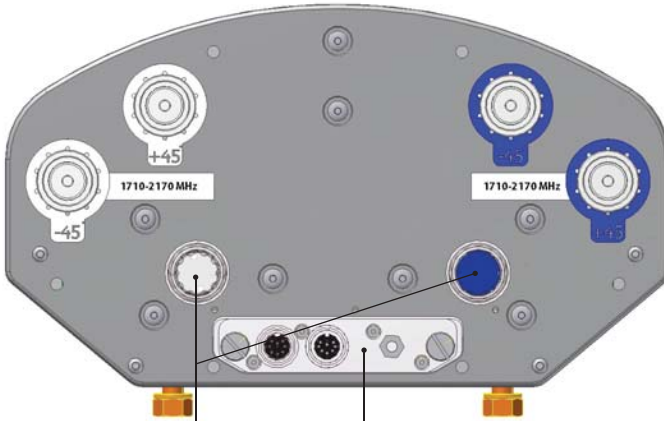
Electrical Downtilt Control				
Electrical downtilt for each band can be controlled separately. Tilt indicator(s) are covered by removable transparent cap(s).				
Manual Electrical Tilt (MET) Control	A colored knob at the end of the tilt indicator allows change of the tilt without need of a tool. The 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 WWX085X13R00	
	Part Number for 3GPP/AISG v2.0 protocol:	MDCU-G0000	One unit installed in WWX085X13G00	
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.				
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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Bottom View of Antenna



Location of the MDCU
for RET Control

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.

Dimensions

