

# ANT500D7-12

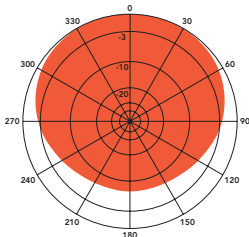
## DIPOLE ARRAY 7 TO 12 dBd

The Telewave ANT500D7-12 is an 8-element dipole array antenna with a precision phasing harness for optimum performance. The horizontal pattern is field-adjustable, to accommodate any current or future coverage requirements. The high gain, wide bandwidth, and high efficiency of the ANT500D7-12 are ideal for many applications, including trunking, business, public safety, and amateur radio.

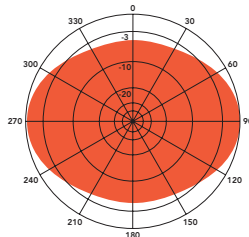
Each antenna consists of two arrays of 4 elements with a power divider in the center, which greatly reduces feedline losses. Each dipole element is constructed with 6061-T6 aluminum, and welded at the base for

maximum strength. Each antenna is also completely sealed with our high-tech Txytan™ coating, which resists water and ice buildup, and provides exceptional protection from corrosive gases, UV radiation, salt spray, acid rain and windblown abrasives. The phasing harness is fully sealed by Telewave's Millennium Seal™ technology.

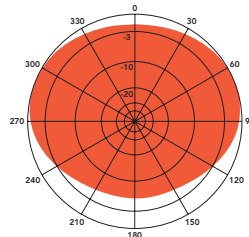
All components are at DC ground for lightning protection, and each element includes a heavy-duty custom clamp set for mounting to a 1.5"-2.5" diameter galvanized steel support pipe or tower leg.



H-Plane gain 12.2 dBd  
1/4 wl. spacing from tower

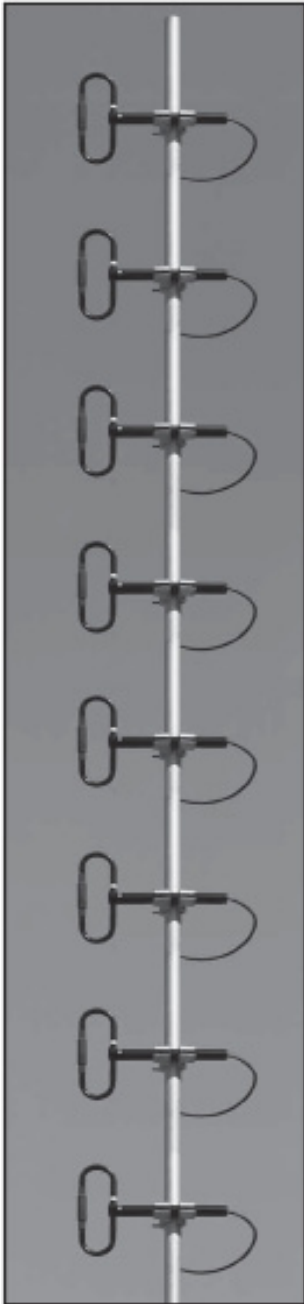


H-Plane gain 11.8 dBd  
1/2 wl. spacing from tower



H-Plane gain 12.7 dBd  
3/8 wl. spacing from tower

SPECIFICATION			
Frequency (continuous)	470-550 MHz	Lightning protection	Lightning protection
Power rating (typ.)	500 watts	Wind rating	175 MPH
Impedance	50 ohms	(with 0.5" ice)	150 MPH
VSWR	1.5:1 or less		
Pattern	Adjustable: Offset circular, cardioid, or bidirectional		
Termination	N-Female or 7-16 DIN (opt.) on power divider		
Gain (dependent on pattern)	7-12 dBd		
Vertical beamwidth (3/8 wl.)	7.5°		
Dimensions (H x D) max	148 x 12 in. (1/2 wl. spacing)		
Weight (antenna + clamps)	36 lb.		
Maximum exposed area	2.9 ft. <sup>2</sup>		
Lateral thrust at 100 MPH	135 lb.		



ANT500D7 - 12  
(Harness not shown)  
Support mast is customer-supplied