



# Base Station Antenna Broadband Collinear Array

450 - 512 MHz, 8-10 dBd Gain



Put dependability on your tower with this new series of UHF antennas from TX RX Systems. Some antennas depend on the fiberglass radome for most or all of their structural integrity; their inner workings are like puppets on a string and would collapse without the radome! Not so with these new models from TX RX Systems. A unique electromechanical design introduced in our successful 800 MHz collinear line, provides unusual strength apart from the radome and superior electrical performance in the same package. A design so original that it has been awarded **two U.S. Patents**. You get an extremely rugged antenna with the broadband electrical advantages of an exposed dipole array and the superior weather resistance of a radome.

- Superior storm and lightning survivability.
- Lower deflection in high winds for consistent performance and less flutter.
- Broad bandwidth like an exposed dipole array but fully radome-protected and a truly circular pattern.
- Available in 0°, 3° and 6° downtilted models.
- Each model covers the entire band.
- Consistent main-lobe pattern across the band.
- Consistent downtilt across the band.
- Ideal for use with combined and multicoupled radio systems.

Model Numbers		
101-68-10-0-01	0° downtilt	7/16 Connector
101-68-10-0-01N	0° downtilt	N Connector
101-68-10-0INV-01	0°, inverted mtg.	7/16 Connector
101-68-10-0INV-01N	0°, inverted mtg.	N Connector

**Ordering Information:**  
Specify Model Number when ordering.  
Consult the factory for models with downtilt

Mechanical Specifications*	
Rated Wind Velocity (RWV)	150 mph (241 kph)
RWV with 1/2 Inch ice	125 mph (200 kph)
Equivalent Flat Plate Area	2.7 ft <sup>2</sup> (.16 m <sup>2</sup> )
Lateral Thrust @ 100 mph	110 lbs. (50 kg)
Overall Length	15.8 ft. (4.8 m)
Weight	62 lbs. (27.2 kg)
Radome Diameter	3.57 in. (9.1 cm)
Support Pipe:	
Diameter	3.5 in. (8.9 cm)
Length	25 in. (63.6 cm)
Wall Thickness	.375 in. (9.5 mm)
Material	6061-T6 Aluminum
Shipping Information:	
Ship Weight	70 lbs. (22.7 kg)
Dimensions	216" x 7" x 7" 548 x 18 x 18 cm
Ship Method	Truck
Mounting Hardware	Supplied

\* Calculated in accordance with EIA RS-329



Electrical Specifications	
Frequency Range	450 - 512 MHz
Gain	9 dBd ± 1 dB
Power Rating	1000 Watts
Bandwidth	62 MHz
VSWR, full bandwidth	1.5:1
Impedance	50 ohms
Vertical Beamwidth	10°
Pattern	Omnidirectional
Lightning Protection	Direct Ground
Termination	N female or 7/16 DIN

Antennas: 450 - 512 MHz



DUPLEXERS • CAVITY FILTERS • MULTICOUPLER SYSTEMS • SIGNAL BOOSTER SYSTEMS • ANTENNAS • RF SYSTEM PRODUCTS

TX RX SYSTEMS INC. 8625 INDUSTRIAL PARKWAY, ANGOLA, NY 14006-9696  
 TELEPHONE 716-549-4700 FAX 716-549-4772 (24 HRS.) EMAIL: SALES@TXRX.COM WEB SITE: WWW.TXRX.COM  
 A MEMBER OF BIRD TECHNOLOGIES GROUP

C1006D99V3.0