

Unicell 12



The **Unicell 12** is a 3-sector antenna mounting structure designed to provide superior RF performance in a “zoning-friendly” package. Due to its small size, light weight, low wind load, and low visual impact, the **Unicell 12** structure will greatly increase the number of candidate sites in your search ring! Billboards, flagpoles, church steeples, and many other existing structure all become potential sites.

ADVANTAGES:

- Small size
- Low wind load
- Easy zoning approval
- RF performance validated on far field antenna range

FEATURES:

- 3-Sectors inside cylindrical enclosure
- Accommodates standard Jaybeam Wireless cross-polarized antennas
- Stackable to satisfy co-location requirements
- Removable radome segments for easy field access

Mechanical Specifications				
Unicell Model No.:	UNX12-13	UNX12-14	UNX12-18	UNX12-19
Diameter of Radome:	12.3 in (312 mm)	12.3 in (312 mm)	12.3 in (312 mm)	12.3 in (312 mm)
Height:	65 in (1651 mm)	72 in (1829 mm)	84 in (2134 mm)	96 in (2438 mm)
Weight (excluding antennas):	93 lbs (42.3 kg)	99 lbs (45.0 kg)	108 lbs (49.1 kg)	118 lbs (53.6 kg)
Antennas Accommodated:	See individual antenna datasheet for Unicell Compatibility			
Azimuth Swivel:	No	No	No	No
Mechanical Tilt:	No	No	No	No
Stackable:	Yes	Yes	Yes	Yes
Windload @ 100mph (160km/h):	60 lbs (265 N)	66 lbs (294 N)	78 lbs (347 N)	88 lbs (392 N)
Survival Wind - Single Model:	150 mph (241 km/h)	150 mph (241 km/h)*	150 mph (241 km/h)	150 mph (241 km/h)*
Survival Wind - Stacked Models:	150 mph (241 km/h)	95 mph (153 km/h)*	125 mph (201 km/h)	75 mph (121 km/h)*

* Survival Wind is reduced on these Unicell models as inner pipe diameter is smaller to accommodate taller RET antenna profile.

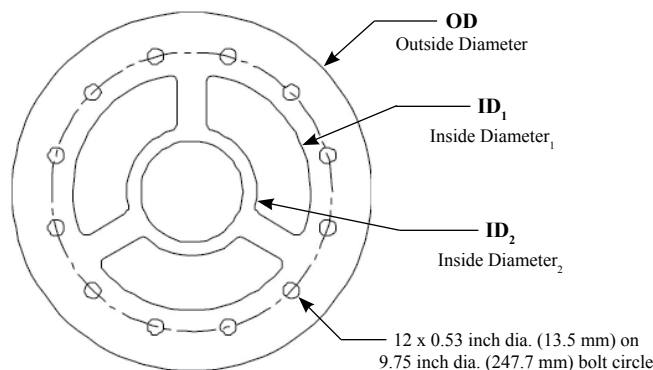
Electrical Specifications	
Gain Loss through Radome:	<0.3 dB
VSWR:	<1.4:1 Max
Port to Port Isolation:	>28 dB
Sector to Sector Isolation:	>45 dB
Front to Back Ratio:	>25 dB

Refer to individual antenna datasheet for all other Electrical Specifications.

Mounting Options and Accessories	
UNX12-M-120	Mounting Mast x 10ft (3048 mm)
UNX12-P-xxxx ¹	Mounting Plate
UNX12-W-xxxx ²	Adapter Weldment
UNX12-F	Flag Adapter
UNX-LPK	Lightning Protection Kit

xxxx¹ = Mounting Plate dia. in inches (i.e.: 12.50" in dia. is UNX12-P-1250)
 xxxx² = Adapter Weldment dia. in inches (i.e.: 11.50" in dia. is UNX12-W-1250)

UNICELL FLANGE INTERFACE:



OD: 12.50 inches (317.5 mm)
ID₁: 8.25 inches (209.6 mm)
ID₂: 4.50 inches (114.3 mm)