

Antenna Registration Question 4: Directional Antenna Information

I. Location Information

- **Location address:** 16040 E. Rio Verde Drive, Scottsdale AZ 85263
- **GPS coordinates of tower:** 33°44'31", 111°44'4"
- **Beam tilt installed (antenna tilt):** -2°
- **Orientation details:** There are 4 sectors, oriented at 0°, 90°, 180°, and 270° boresight.

- **Overall height above ground:** 11.3m
- **Elevation of ground at antenna site:** 639.2m
- **Distance to nearest aircraft landing:** 21km

II. Equipment Technical Specifications

- **Frequency range:** Tarana G1 BN and RN are locked to operate only in UNII-5 (5.925–6.425 GHz) and UNII-7 (6.525–6.875 GHz) in the US.

- **Maximum EIRP and Emission designator**

6GHz BN (Base Node)

Model	Equipment Class	Bandwidth (MHz)	Emission Designator	EIRP (W)	ERP (W)
G1BN6ASI002	6SD	80	80M0G7D	4	2.3
G1BN6ASI002	6SD	40	40M0G7D	4	2.3

6GHz RN (Remote Node)

Model	Equipment Class	Bandwidth (MHz)	Emission Designator	EIRP (W)	ERP (W)
G1RN6AHB012	6FC	80	80M0G7D	4	2.3
G1RN6AHB012	6FC	40	40M0G7D	4	2.3

- **Antenna Description**

Both RN and BN contain integrated internal antenna only (product has no interface for external antenna). This is a custom antenna made by Tarana.

The antenna specification here is that of a single dual-polarized array antenna. The RN is equipped with 4 H/V antennas that result in focusing the effective beam pattern in the direction of interest. BN is equipped with 8 H/V antennas.

Model	Equipment Class	Antenna Type	UNII-5 Antenna Gain (dBi)	UNII-7 Antenna Gain (dBi)
6GHz BN (G1BN6ASI002)	6SD	Integrated Array (8H, 8V)	16.9	17.3
6GHz RN (G1RN6AHB012)	6FC	Integrated Array (4H, 4V)	14.9	15.0