

Technical Specification

150/450 MHz Dual Band

BSDB31U

BASE STATION ANTENNA

Reliable Performance: Rated at 250 watts with unity gain, you can expect years of continuous service.

Rugged Construction: The radiating elements are constructed of copper alloy. They are welded and, or soldered to prevent any intermodulation. They are encased in a fiberglass radome for total environmental protection.

Weatherproof: The fiberglass radome is ultraviolet inhibited. The heavy wall aluminum mounting sleeve is epoxy coated for superior weather protection.

Lightweight: These antennas are lightweight at less than 5 lbs. but are designed to easily withstand winds of over 125 MPH.

Simple installation: Using the optional BSMNT2 mounting kit, installation takes only minutes.

ELECTRICAL SPECIFICATIONS:

FREQUENCY RANGE:	VHF 144-174MHz
	UHF 406-512MHz
GAIN:	Unity
VSWR:	<2:1
BANDWIDTH:	VHF 6 MHz
	UHF 20 MHz
POWER RATING:	250 watts
IMPEDANCE:	50 ohms
VERT BEAMWIDTH:	75°

MECHANICAL SPECIFICATIONS:

RADIATOR:	Copper alloy elements
RADOME:	White UV inhibited fiberglass
MOUNTING SLEEVE:	1.35"dia. (3.4cm) heavy wall epoxy coated
SLEEVE LENGTH:	10" (25.4cm)
TERMINATION:	Female N stand., pigtail optional
OVERALL LENGTH:	67" typical (1.7m)
WEIGHT:	5 lbs. (2.3kg)
FLAT PLATE AREA:	.29 ft ²
WIND RATING:	125 MPH (201kph)
LATERAL THRUST:	19.8 lbs. (8.9kg)



Vertical Pattern

