



Microcom Design, Inc.

Model UB8-1 UHF Satellite Antenna

P/N: AT-101-UB8



Description

The **UB8 Satellite Antenna** is designed to be used with UHF satellite transmitters and receivers. Typical application is the GOES DCS at 402 MHz transmit. Its 9 dB gain allows the maximum EIRP of 48 dBm on the GOES HDR signal to be obtained with 12 watt transmitters allowing for 1 dB cable loss.

One of the outstanding characteristics of the **UB8** is its low profile rugged design. It is easily mounted either external or internal to sensor shelters. The construction includes integral mounting hardware that incorporates mounting for the GPS antenna which simplifies site hardware.

Specifications

Gain: 8.5dB

Beamwidth: -3 dB +/- 35 degrees

VSWR: <1.5:1 at 402 MHz

Frequency: Optimized for 402 MHz TX

Axial Ratio: < 4dB

Size: 16 in. back plane and 6 in. high by 12 in. diameter cover.

Weight: 10 Lbs with mount

Maximum Power: 100 Watts

Mount: 2 - 3 inch Pipe, others on request

Connector: Type N Female

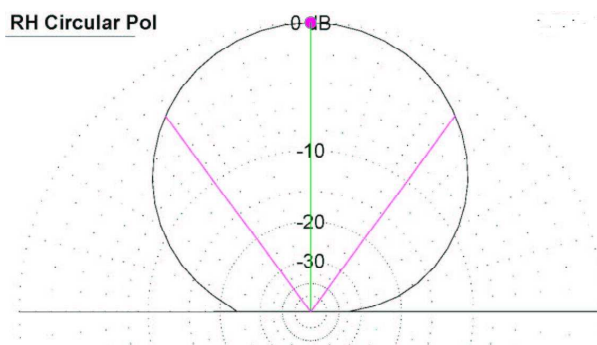
Options: Hydrophobic coating

The radome cover material is UV and salt water resistant and readily sheds snow and rain. The **UB8** is not affected by rain, snow, or freezing rain. An optional hydrophobic coating further improves water shedding.

The wide band matching and integral ground plane prevent the antenna from being detuned by nearby objects unlike narrow band antennas.

All exposed metal of the antenna is stainless steel providing excellent corrosion resistance. The radome is extruded UV resistant 1/8 inch ABS plastic.

The antenna radiation pattern below is a simulation over an infinite, perfect ground plane.



Frequency: 402 MHz

Cursor: 90 degrees

Gain: 9.01 dBi

Beamwidth: 71.1°; -3dB @ 53.4°, 124.5°

UB8 Gain Pattern

Patent Pending

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