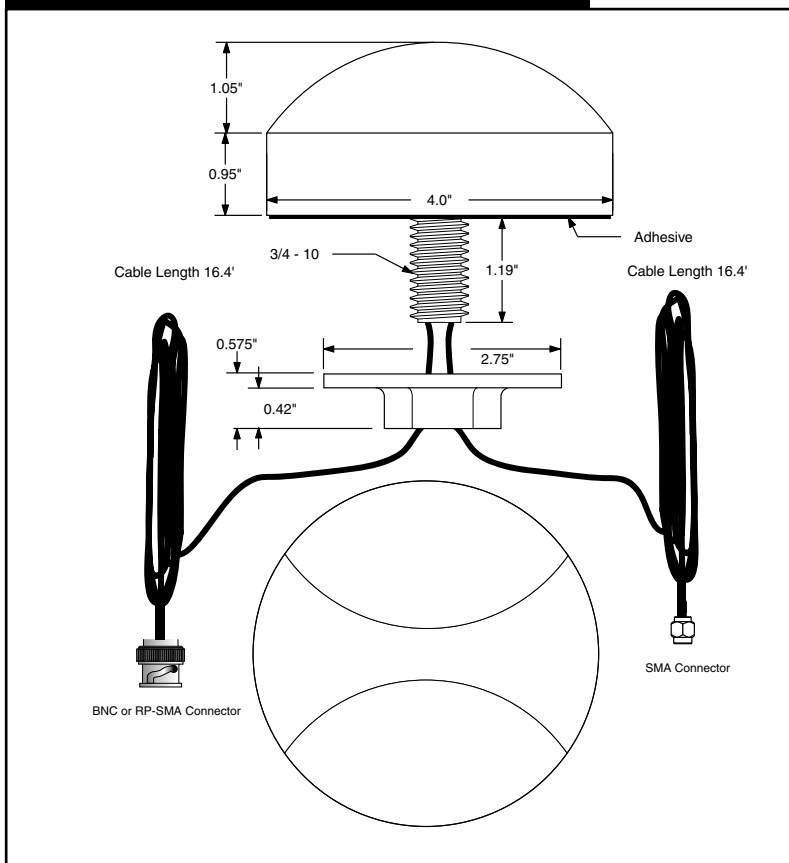




A breakthrough in dual-band antenna technology, the CELNSAT antenna combines a wide-band ISM or Cell-band antenna with a high-efficiency, amplified GPS antenna. Housed in a weather-tight, tamper-resistant dome, the CELNSAT is ideal for mounting on devices such as vehicles, vending machines, or equipment housings.

- Unique dual-band configuration.
- High-efficiency amplified GPS antenna.
- High-performance broadband Cell or ISM element.
- Low-profile weatherproof housing.
- Both elements matched to 50Ω.
- Center-fed through rugged mounting stud.
- Ideal for mobile or stationary applications.
- Color and terminations customizable for volume OEMs.

### PHYSICAL DIMENSIONS



### ELECTRICAL SPECIFICATIONS

| SPECIFICATION | GPS           | 859MHZ          | 915MHZ          |
|---------------|---------------|-----------------|-----------------|
| Frequency     | 1575.42MHz    | 824-894         | 902-928         |
| Gain          | 5dBi          | 2dBi            | 2dBi            |
| V.S.W.R.      | <2.0          | <1.7            | <1.7            |
| Impedance     | 50Ω           | 50Ω             | 50Ω             |
| Polarization  | RHCP          | Vertical        | Vertical        |
| Pattern       | Hemispherical | Omnidirectional | Omnidirectional |
| GPS LNA:      |               |                 |                 |
| Gain:         | 32± 2dB       |                 |                 |
| Noise Figure: | 2.0dB (max)   |                 |                 |
| Voltage:      | 5VDC (±10%)   |                 |                 |
| Current:      | 20mA (max)    |                 |                 |

### MECHANICAL SPECIFICATIONS

| SPECIFICATION | GPS                        | 859MHz (CELL) | 916MHz (ISM)    |
|---------------|----------------------------|---------------|-----------------|
| Connector     | SMA (Male)                 | BNC           | RP-SMA (Female) |
| Cable         | 1.5D-2V 16.4 ft. ± 2 in.   |               |                 |
| Case          | ABS                        |               |                 |
| Color         | White                      |               |                 |
| Mounting      | Threaded stud (20mm hole)  |               |                 |
| Weight (Max)  | 2.6 lb. (with cable assy.) |               |                 |

### ORDERING INFORMATION

| PART #           | DESCRIPTION              |
|------------------|--------------------------|
| ANT-916-DBD-DA/W | Dual Band Antenna (ISM)  |
| ANT-859-DBD-DA/W | Dual Band Antenna (CELL) |