# GPS-TMG-26N, 26 dB Internal Amplifier

The GPS-TMG-26 timing reference antennas feature a 26 dB amplifier specifically designed to support long-lasting, trouble-free deployments in congested cell-site applications.

The proprietary quadrifiliar helix design, coupled with multi-stage filtering provides superior out-of-band rejection and lower elevation pattern performance than traditional patch antennas.

Their unique radome shape sheds water and ice, while eliminating problems associated with bird perching. The antenna may be purchased by itself or with pipe mounting hardware. Custom models or site kits options are also available.

This antenna is made of materials that fully comply with provisions stipulated by EU directives RoHS 2002/95/EC.



GPS-TMG-26N





**GPS-TMG-MRNMNT** 



#### Low Noise Amplifier Specifications

| uency Band (MHz):<br>i75.42 +/- 10 MHz                     |
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| lifier Gain:<br>o dB +/- 3 dB                              |
| inal Impedance:<br>) ohms                                  |
| out VSWR:<br>2.0:1   |
| mum Noise Figure:<br>2.5 dB @ +25°C including pre-selector |
| Oltage:<br>3- 9.0 V (regulated)                            |
| <br>Current:<br>35 mA                                      |
| ring:<br>stage filtering including pre-selector            |
| <br>dwidth:<br>60 dB @ +/- 50 MHz off center frequency     |

## Antenna Element Electrical Specifications

| Frequency<br>Band     | Antenna<br>Gain | Nominal<br>Impedance | VSWR   | Polarization           | Connector                       |
|-----------------------|-----------------|----------------------|--------|------------------------|---------------------------------|
| 1575.42 +/-<br>10 MHz | 3.5 dBic        | 50 ohms              | ≤1.5:1 | Right hand<br>circular | N, female (one<br>- bottom fed) |

#### **Mechanical Specifications**

| Antenna         | Shipping                 | Antenna  | Shipping | Radome |
|-----------------|--------------------------|----------|----------|--------|
| Dimensions      | Dimensions               | Weight   | Weight   | Color  |
| 5.0" H x 3.2" D | 7.5" L x 4.4" W x 3.8" D | 0.6 lbs  | 1.9 lbs  | White  |
| (126 H x 81 mm) | (190 L x 112 x 96 mm)    | (0.3 kg) | (0.9 kg) |        |

### **Environmental Specifications**

| Temperature Range                    | Humidity |
|--------------------------------------|----------|
| - $40^{\circ}$ C to + $85^{\circ}$ C | 95%      |

#### Mounting

All mounting options fit pipes of 1"-1.45" (25 mm-37 mm) maximum diameter.

| Model         | Options  |
|---------------|--|
| GPS-TMG-26N   | Does not include mounting hardware.  |
| GPS-TMG-26NMS | Includes universal mounting hardware consisting of collar (GPS-TMG-MNT) and pipe clamp (GPS-TMG-LMNT). |
| GPS-TMG-26NCS | Includes economy collar mount (GPS-TMG-MRNMNT).  |