

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

The MicroPulse™ GPS-QBW-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 quadrifilar 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 kit options are also available.

### Antenna Electrical Specifications

#### Frequency Band

1575.42 +/- 10 MHz

#### Antenna Element Gain

4.5 dBic

#### Nominal Impedance

50 Ohms

#### VSWR

< 1.5:1

#### Polarization

Right hand circular

#### Connector

N, female (one - bottom fed)

#### Input/Output

-ESD Protected

-Reverse polarity protection

-Transient voltage suppression on output

### Low Noise Amplifier Specifications

#### Frequency Band (MHz)

1575.42 center frequency

3dB bandwidth ±10MHz

#### Amplifier Gain

26 dB +/- 3dB

#### Nominal Impedance

50 Ohms

#### Output VSWR

< 2.0:1

#### Maximum Noise Figure

<= 2.5 dB at +25 degrees C

#### DC Voltage

3.3 - 6V (regulated)

#### DC Current

30mA, 45mA max at 5V

#### Polarization

Right hand circular



GPS-TMG-26N

### Filtering

3 stage filters including pre-selector

### Out of band rejection

-60dB at ±5.0MHz

### Mechanical Specifications

#### Antenna Dimensions

5" H x 3.2" D (126 mm H x 81 mm D)

#### Shipping Dimensions

7.5" L x 4.4" W x 3.8" D (190 mm L x 112 mm W x 96 mm D)

#### Antenna Weight

0.6 lbs (0.3 kg)

#### Shipping Weight

1.9 lbs (0.9 kg)

#### Radome Color

White

### Environmental Specifications

#### Temperature Range

- 40°C to + 85°C

#### Humidity

Up to 95%

### Mounting Method

Fits pipes of 1"-1.45" (25 mm-37 mm) maximum diameter

### Mounting Options

#### Model GPS-TMG-26N

Does not include mounting hardware.

#### Model GPS-TMG-26NMS

Includes universal mounting hardware consisting of collar mount and LBracket mount

#### Model GPS-TMG-26NCS

Includes economy collar mount (part #13315-1)