

GPS-TMG-SP-40N, 40 dB Internal Amplifier with Integrated Lightning Protection ^{NEW}

The GPS-TMG-SP-40N timing reference antennas are specifically designed for long-lasting, trouble-free deployments in congested cell-site applications. The low noise, high gain amplifier is well suited to address attenuation issues associated with applications requiring longer cable runs.

The proprietary quadrifilar helix design, coupled with multistage 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.

The antenna provides integrated lightning protection capability.

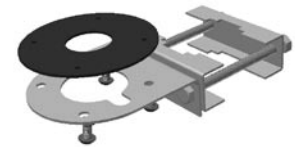
The antenna also features ESD, reverse polarity protection and transit voltage suppression.



GPS-TMG-SP-40N



19-9199-1 mount



39A000

Antenna Electrical Specifications

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

Mechanical Specifications

Antenna Dimensions	Shipping Dimensions	Antenna Weight	Radome Color
7.25" H x 3.2" D (184 x 81 mm)	7.5" L x 4.4" W x 3.8" D (190 x 112 x 96 mm)	0.75 lbs (0.34 kg)	White

Environmental Specifications

Temperature Range	Humidity
-40°C to +85°C	95%

Mounting

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

Model	Options
GPS-TMG-SP-40N	Does not include mounting hardware.
GPS-TMG-SP-40NLM	Includes standard mounting hardware consisting of pipe clamp (part #39A000).
GPS-TMG-SPS-40NCB	Includes heavy duty mount (part #19-9199-1).



Low Noise Amplifier Specifications

Frequency Band: 1575.42 +/- 12 MHz
Amplifier Gain: 40 dB +/- 3 dB
Nominal Impedance: 50 ohms
Output VSWR: <2.0:1
Maximum Noise Figure: < 2.5 dB @ +25°C including pre-selector
DC Voltage: 3.3-9 V
DC Current: < 40 mA
Filtering: 3 stage filtering including pre-selector
Out of Band Rejection: ≥ -60 dB @ +/- 50 MHz off center frequency
Lightening Protection: 90 V, 20 kA, 8/20 μS