

Global GNSS Timing Reference Antenna

GNSS Systems Covered: GPS L1, GALILEO E1, GLONASS L1 & BEIDOU B1



PCTEL's GNSS1-TMG-26N global GNSS 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 multi-stage filtering provides superior out-of-band rejection and lower elevation pattern performance than traditional patch antennas. This multi-band antenna covers GPS L1, GALILEO E1, GLONASS L1 as well as BEIDOU B1 frequencies.

Their unique radome shape sheds water and ice, while eliminating problems associated with bird perching. PCTEL offers an array of compatible mounting configurations. Custom models or site kits options are also available.

The antenna features transient voltage suppression as well as protection from reverse polarity and electrostatic discharge (ESD).



GNSS1-TMG-26N (Top)
GPS-TMG-MNT (Bottom left)
GPS-TMG-LMNT (Bottom right)

STANDARD CONFIGURATION

Model	Connector	Mount*	Radome
GNSS1-TMG-26N	N Female (one - bottom fed)	Does not include mounting hardware.	Color: White
GNSS1-TMG-26NMS		Includes universal mounting hardware consisting of collar (GPS-TMG-MNT) and pipe clamp (GPS-TMG-LMNT)	
GNSS1-TMG-26NCM		Includes collar mount (GPS-TMG-MNT)	
GNSS1-TMG-26NCS		Includes economy collar marine mount (GPS-TMG-MRNMNT)	

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA

Model	Frequency Range	LNA Gain	Element Gain	Out of Band Rejection	VSWR
GNSS1-TMG-26N	1554-1615 MHz	26.5 dB \pm 3 dB @ GPS L1/GALILEO E1 24.5 dB \pm 3 dB @ GLONASS L1/BEIDOU B1	≥ 3 dBic	≥ -45 dB @ $f \leq 1530$ MHz ≥ -45 dB @ $f \geq 1660$ MHz	$< 2.0:1$

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA, continued

Model	Noise Figure	Current Draw	DC Voltage	Nominal Impedance	Polarization
GNSS1-TMG-26N	< 2.5 dB @ +25°C including pre-selector	< 35 mA	3.0-9.0 V (operating) ≤ 28.0 V (survivability)	50 ohms	Right hand circular

MECHANICAL & ENVIRONMENTAL SPECIFICATIONS

Model	Dimensions	Weight	Housing Material	Temperature Range	Humidity
GNSS1-TMG-26N	5.0" H x 3.2" D (126 H x 81 mm)	0.6 lbs (0.3 kg)	ASA	-40°C to +85°C	95%