Mobile Mount, Low-Profile Active, 26 dB GPS Antenna

PCTEL's GPS active NMO mount antenna provides superior performance with the industry's smallest NMO mountable footprint. The GPS-NMO antenna features a custom tuned frequency ceramic patch element, 15 KV ESD circuit protection, a two-stage low noise amplifier and a SAW filter, that provides excellent out-of-band signal rejection performance and consistently clear signal while minimizing loss-of-lock.

The GPS-NMO features an attractive, compact housing environmentally tested for both fixed or mobile applications. Its innovative tab design supports higher reliability and repeatable performance at GPS frequencies than button pin designs can provide. The product is available in black or white housing options to suit a wide variety of installation applications.



GPS-NMO

Features

- Attractive, low-profile design for maximum overhead clearance
- 2.7-5 Volt operation
- 15 KV ESD circuit protection
- Mates with all 1-1/8"-18 thread NMO mounts, including 3/4" mounts

STANDARD CONFIGURATION

Model	Mount	Radome
GPS-NMO	Does not include mounting hardware. Compatible with all 1-1/8"-18 thread NMO mounts, including 3/4" mounts*.	Black

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA

Model	Frequency Range	LNA Gain	Element Gain	Noise Figure	Out of Band Rejection
GPS-NMO	1575.42MHz ±10 MHz	@ 3.3VDC: 26 dB @ 5VDC: 26 dB	1 dBic	2.1 dB (Typical)	± 50 MHz: 30 dB ± 60 MHz: 50 dB

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA, continued

Model	Current Draw	DC Voltage	Nominal Impedance	Polarization
GPS-NMO	<8 mA @ 3.3v <8 mA @ 5.0v	2.5 - 5 VDC	50 ohms	Right hand circular

MECHANICAL & ENVIRONMENTAL SPECIFICATIONS - GNSS ANTENNA

Model	Dimensions	Weight	Shock	Vibration	Temperature Range	Humidity
GPS-NMO	1.5" x 1.8" (38 x 46 mm)	0.15 lbs (0.07 kg)	Vertical axis 50G, Other axes 30G	3 axis, sweep = 60 min 3 – 500 Hz random vibration	-40°C to +85°C operating	95% max (non condensing)

*PCTEL is a leading designer and manufacturer of custom mobile mount assemblies. Please contact PCTEL Customer Service for your custom solutions.