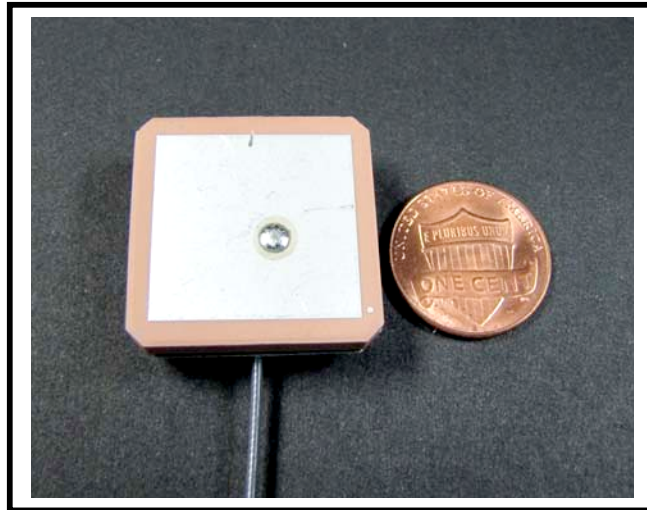




Picture of the Part



Application

WPANTMG2541105010A is an Active Patch GPS Antenna that can be used in wireless tracking / navigation devices where size and performance are very critical. The standard cable length for this antenna is 50mm and the standard connector is IPEX / Hirose equivalent.

WP Wireless can assist your engineers to optimize mounting positions for these antennas in your specific application and can further assist to trouble shoot system integration issues such as TRP/TIS and FCC requirements. WP Wireless specializes in developing customized Antenna solutions. Please contact sales@wp-wireless.com with your specific application requirements.

Electrical Properties

Parameter	Antenna Performance
Operating Frequency	1567 – 1583 MHz
Recommended Impedance of the customer Radio Module[Ω]	50Ω
VSWR – Typical	<2:1
Passive Patch Peak Gain [dBic] (Typical)	5 dBic @Zenith
LNA Gain [dB] (Typical)	27 dB
Voltage [V] (Typical)	2.3 – 5.5 V
Current [mA] (Typical)	6.6 – 11 mA
Noise Figure [dB] (Typical)	1.5 dB
Polarization	RHCP
Axial Ratio [dB] (Typical)	3.0 dB
Accepted Power [W] (Max)	2 Watts



Mechanical / Environmental Properties

Item	Value
Patch Dimensions	25mm X 25mm X 4mm (L X W X H)
Patch + PCB + LNA Dimensions	25.4mm X 25.4mm X 8.8mm (L X W X H)
Antenna Color	Brown with Silver patch
Cable	50mm long (from the edge of the PCB) 1.13mm OD Micro-Coax
Connector	IPEX / Hirose equivalent
Operating / Storage Temperature	-40°C to +90°C
Environmental	Meets standards for UL 94V-0
Hazardous Materials	RoHS compliant

Pictures of the Antenna

