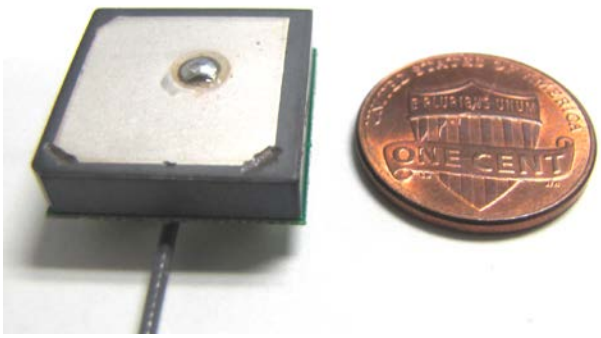
WORLD PRODUCTS INC.

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WPANT65018-R1A

GPS L1 Band Active Patch Module



Description / Application

This is a 18mm X 18mm Active Patch Module for GPS L1 Band frequencies. This can be used in portable navigation & tracking applications. The module consists of a circularly polarized patch antenna and a single stage Low Noise Amplifier (LNA). It comes with a U.FL cable and an IPX / Hirose equivalent connector.

We can assist your engineers to optimize mounting positions for these antennas in your specific application and can further customize the antennas for your specific needs. Please contact sales@worldproducts.com with your specific application requirements.

Electrical Properties

Operating Frequency	1567 – 1583 MHz
Approximate Antenna Impedance [Ω]	50Ω
LNA Gain [dBi] (Typical)	26 dBi
Active Antenna Peak Gain [dBi]	29.5 dBi @ Zenith
Voltage [V] (Typical)	2.5 – 3.5 V
Current [mA] (Typical)	9.6 mA
Noise Figure [dB] (Typical)	1.8 dB
Polarization	RHCP
Axial Ratio [dB] (Typical)	3 dB

Mechanical / Environmental Properties

Patch Dimensions	18.2 mm X 18.2 mm X 4 mm
Module Dimensions	18.2 mm X 18.2 mm X 6.5 mm
Cable	50 mm long 1.13mm OD Micro Co-ax
Connector	IPX / Hirose equivalent
Operating / Storage Temperature	-40°C to +90°C
Environmental	IP67 rated; Meets standards for UL 94V-0
Hazardous Materials	RoHS Compliant

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Pictures of the Antenna

