

ignion[™]

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Geofind[™] (NN01-103)

DATASHEET

Geofind™ (NN01-103): GPS (1575 MHz), GLONASS (1561MHz), and Beidou (1598 – 1606 MHz)

Ignion specializes in enabling effective mobile communications. Using Ignion technology, we design and manufacture optimized antennas to make your wireless devices more competitive. Our mission is to help our clients develop innovative products and accelerate their time to market through our expertise in antenna design, testing and manufacturing.

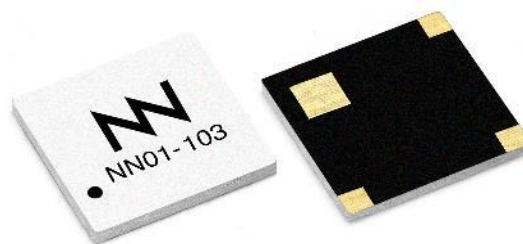
The Geofind™ is a slim chip antenna engineered specifically for consumer electronic devices operating with GPS, GLONASS, and Beidou system where low-cost and robust performance is mandatory. The Geofind™ antenna is built on glass epoxy substrate.

Taking advantage of the space-filling properties, this small planar monopole antenna is ideal for use low-cost consumer electronic devices to add personal location functionalities. The Geofind™ GPS/GLONASS/Beidou slim chip antenna speeds your time-to-market by allowing you to integrate it within your industrial design easily (SMD mounting) and efficiently.

Product Benefits

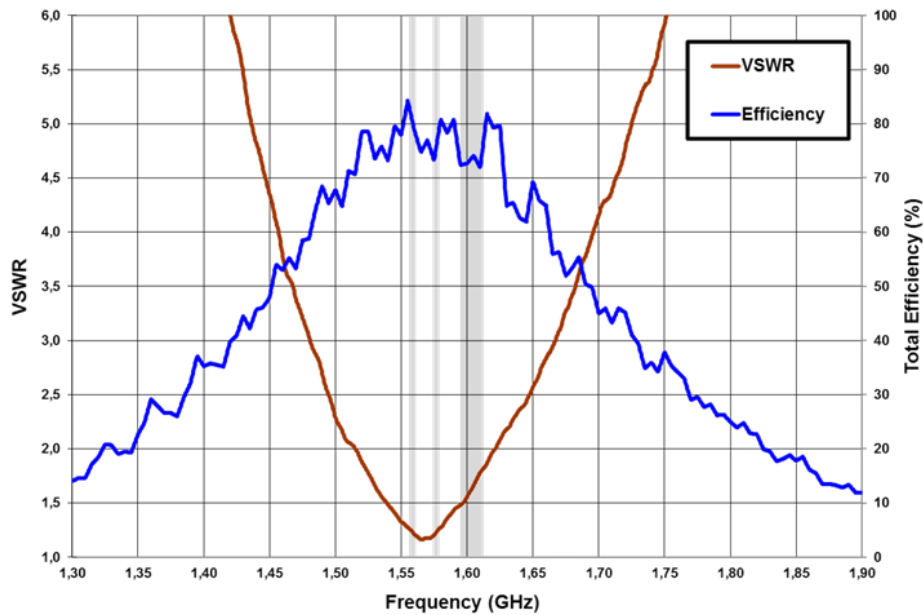
- **High performance/Price ratio**
Raises your device's competitiveness by increasing satellite sensitivity and decreasing your device's BoM cost.
- **Omnidirectional pattern**
Optimizes device usage due to a uniform radiation pattern.
- **Small Volume**
Allows integration into space limited areas easily and efficiently.

10.0 mm x 10.0 mm x 0.9 mm (image larger than real size)



PAT US 7,148,850, US 7,202,822

VSWR and Total Efficiency (%) vs. Frequency (GHz)



Technical Features	1561 MHz	1575 MHz	1598 – 1606 MHz
Average Efficiency	> 75.0 %	> 70.0 %	> 70.0 %
Peak Gain	1.4 dBi	1.2 dBi	1.3 dBi
VSWR	< 2:1		
Radiation Pattern	Omnidirectional		
Polarization	Linear		
Weight (approx.)	0.2 g		
Temperature	-40 to +125 °C		
Impedance	50 Ω		
Dimensions (L x W x H)	10.0 mm x 10.0 mm x 0.9 mm		

Measures from the evaluation board (71.0 mm x 30.0 mm x 1.0 mm)

See pictures of the evaluation boards and graphs of the specs in the [User Manual](#).

For additional information, please visit www.ignion.io or contact info@ignion.io.

If you need assistance to design your matching network, please contact support@ignion.io, or try our free-of-charge¹ **NN Wireless Fast-Track** design service, you will get your chip antenna design including a custom matching network for your device in 24h¹. Other related to NN's range of R&D services is available at: <https://www.ignion.io/rdservices/>

¹ See terms and conditions for a free NN Wireless Fast-Track service in 24h at: <https://www.ignion.io/fast-track-project/>

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