

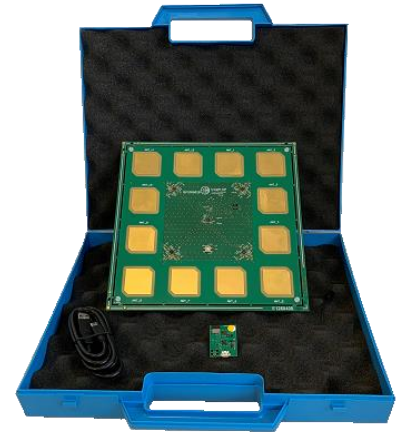
ISP1907 AOA

Data Sheet



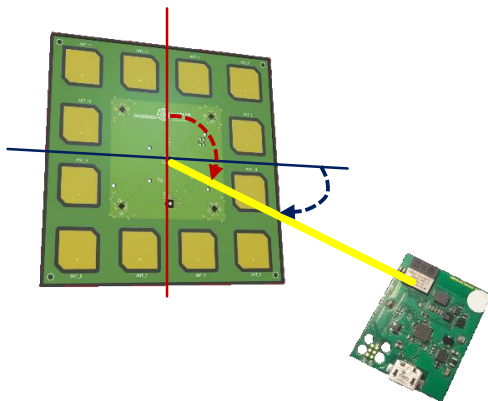
ISP1907 Angle of Arrival Demo Kit

In order to assist clients in developing Direction Finding applications based on the ISP1907, Insight SIP offers a specific Demonstration Kit supporting Angle of Arrival technology. The Kit provide full HW and SW necessary development environment for product developers to start working on their solutions.



AoA Description

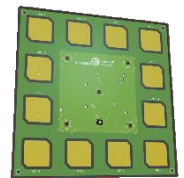
Direction finding provide improved precision at Bluetooth cost for asset tracking and people location. Angle of Arrival (AoA) technology makes use of the angular phase-shifts that occur between antennas as they receive or transmit RF signals.



The full system is made of anchor units positioned in line-of-sight manner from tag units. The Tag Board is regularly transmitting a specific localization advertising signal. The Anchor Board integrating an Antenna array at the other side of the communication link is providing phase, which leads to angle information. The position of tagged items is calculated by triangulation from different anchors.

Dev Kit Contents

- 1 x Anchor Board integrating a 3D phase array antenna and an ISP1907-HT module for AoA calculation
Size 200 x 200 mm
- 1 x Tag Board integrating an ISP1907-LL module for AoA transmission signal, and several sensors as Accelerometer, Magnetometer, Temperature, Humidity and Barometer
Size 32 x 26 mm
- Cables
- Anchor and Tag are delivered with related firmware to demonstrate AoA application
- Customer can download a direction finding viewer option for nRFConnect in coordination with Nordic Semiconductor



How to order

- ISP1907-AOA-DK**