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VIAVI Solutions



a VIAVI company



Brochure

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**IoT A – IoT for Antenna**

IoT Antenna Sensor

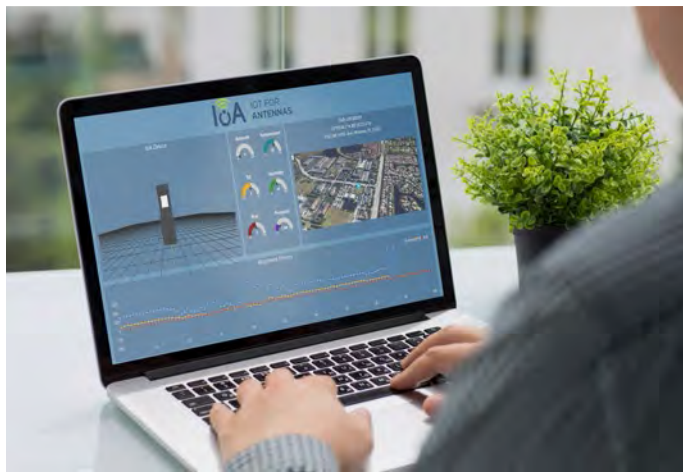
Monitoring antenna alignment is critical for wireless networks. With IoA – IoT for antennas, customers can remotely monitor alignment, avoid revisits, and create priority lists based on recorded alignment data.



IoA – IoT for Antennas is an IoT antenna sensor that monitors alignment in three dimensions: azimuth, tilt and roll. IoA utilizes LTE CAT-M1/NB-IoT to alert of undesired changes to all antennas being monitored.

## Real-Time Antenna Alignment Monitoring

IoA offers real-time antenna alignment monitoring on all wireless network antenna arrays. Data captured with IoA's patented monitoring technology is made available over the cloud, allowing operators to remotely view the history of all physical antenna alignment changes.



## From the Field to Your Desk

Each antenna can be individually identified on a tower or throughout the entire network. With IoA, operators can set thresholds for changes in azimuth, tilt and roll. When these thresholds are exceeded, an alarm will be generated, and the operator will be notified immediately. In case of emergencies, priority lists can be easily created using available alignment data, allowing for faster disaster recovery.

## Easy to Set Up

Installing IoA is a quick process designed with the technician in mind. Simply insert an IoT-enabled SIM card and attach IoA to the back of the antenna to start reporting antenna alignment data to the cloud. Use the software to set alignment thresholds.

Every IoA device is designed to surpass performance standards required for wireless monitoring products. It has a battery lifetime of 5+ years<sup>1</sup> and strictly enforced waterproof sealing standards-IP67.

## Benefits

- Remotely monitor antenna alignment
- Avoid revisits
- Reduce OPEX
- Cloud-based data management

## Key Features

- LTE CAT-M1/NB-IoT ready
- GPS/GNSS position technology<sup>1</sup>
- E-paper display for status and alerts
- 5+ year battery life<sup>2</sup>
- IP67 rated
- Alarm capable
- Weather-resistant adhesive
- No maintenance required
- Cloud data storage



## Quality Standards

Every IoA device is designed to surpass performance standards required for wireless monitoring products. It has a battery life of 5+ years<sup>2</sup> and strictly enforced waterproof sealing standards-IP67.

## General Specifications

Accuracy	
Azimuth	1° RMS
Mechanical Tilt	1° RMS
Roll	1° RMS
Remote Monitoring	
User-defined alarm thresholds	
3D antenna view	
E-paper display	
Power	
Battery	3.7 VDC
Battery Life <sup>2</sup>	5+ years
Dimensions	
Length	5.2" (132 mm)
Width	2" (48.5 mm)
Height <sup>3</sup>	1" (26 mm)
Weight	3.8 oz (108 g)
Adhesion to Antenna	
High strength bonding tape	
Instant bond	
Extreme temperature and UV resistant	
Expansion and contraction	
20+ year bonding	
Compliance	
LTE CAT-M1/NB-IoT	
FCC Part 15 compliant	
IC & CE compliant	

1. Optional.
2. Depending on reporting frequency.
3. 0.6" (14.5 mm) at the thinnest part and 1" (26 mm) on the thicker end.

## Technical Support

Professional training and technical support are available to guarantee the best user experience. Contact your sales representative for more information.

## Ordering Information

Description	Part Number
IoA - IoT for Antennas	3Z-IoA-1000



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