



# APAT

Adaptive Phased Array  
Antenna Technology



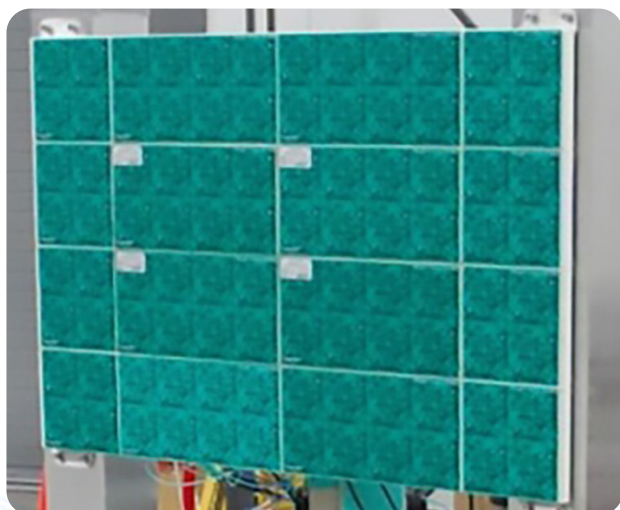


# APAT

## Adaptive Phased Array Antenna Technology

BlueHalo's Adaptive Phased Array Antenna Technology (APAT) is developed to improve RF performance substantially for wide range of defense and commercial RF applications.

- Mountable on aircraft and other platforms for telemetry applications.
- S-Band (C and L bands in development)
- Data Rates from 1 Mbps to 30 Mbps
- Small Size and power consumption
- Waveform agnostic
- Tracks multiple targets



4 Panel Array



## Features

- Modular high capacity antenna panels scalable to meet the antenna gain requirements.
- Each antenna scalable to meet the performance (range and sensitivity) needs of the application.
- Data Speed from 1 Mbps to 30 Mbps, different configurations meet different mission demands.
- Waveform agnostic, capable of tracking multiple telemetry streams simultaneously.
- Weight and Power Efficient / Portable, suitable for airborne and ground operations.
- Scan volume of each panel is +/- 90 degrees from boresight.
- Capable of tracking signals well below the noise floor.
- No a-Priori Information needed about waveforms or direction.

## Applications

- Radar,
- SATCOM, Space Communications
- Electronic Warfare,
- Over the Horizon Communications,
- Telemetry,
- 5G