



A new method to reduce the data rates needed to operate a large-scale antenna array. This decreases the overall cost of computing hardware needed, thus making antenna arrays more commercially viable.

This method enables homogeneous data acquisition and analysis of large scale phased array systems using low cost, readily available computing hardware.



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Phased Array Antenna Receiver System

Competitive Advantages

- Significant reduction in data rates
- Signal reconstruction using computing software
- Significantly increases the communication bandwidth from ground to multiple sky based assets.

Commercial Applications

- Next-Gen receiver systems for satellite TV and general satellite downlinks, radar systems, space tracking, etc.
- Low-cost portable communication system for use in airplanes, cars, and other moving objects.

IP Status

- Licenses available

Status of Development

- Method verified by simulations. Prototype hardware implementation under development.

References

- [STARGATE](#)

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