New Technology to be unveiled at SFA Space Power Conference Dec 12-13th in Orlando, FL

ORLANDO, FLORIDA, UNITED STATES , December 11, 2023 / EINPresswire.com/ -- Defense And Intelligence Agencies Can Now 'Hear The Whole Sky' with Quasar Sense New technology can track and characterize over 30 satellites simultaneously in space, boosting national security .To be unveiled at the SPF Space Power Conference in Orlando, FL Dec 12-13th.

Quasar Satellite Technologies ('Quasar') launched Quasar Sense, a world first in space domain awareness capabilities (SDA), to the American defense, intelligence, and national security sectors. Quasar Sense deploys more than 30 steerable beams from a secure digitally defined phased array antenna enabling ground stations to simultaneously track and characterize over 30 satellites 'of interest' in real-time. This capability proactively delivers a continuous 360-degree perspective of radio frequency events in the sky 24/7. It also boosts space counterintelligence, anomaly detection, satellite monitoring, and decision-making capabilities to previously unachievable levels.

To be unveiled at the Space Force Association's Inaugural Spacepower Conference,Quasar Sense closes several intelligence gaps currently challenging American intelligence, space, and defense departments. For the first time ever, SDA intelligence in the southern hemisphere can operate without any blind spots with full access to all radio frequency activities. Quasar Sense enables the accurate distinction of space objects in close proximity, irrespective of light quality and weather conditions. Finally, it mitigates ongoing daily strikes against satellites, ranging from reversible, non-damaging attacks such as jamming GPS transmissions and spoofing.

Currently there are about 8,200 satellites currently in orbit. McKinsey forecasts there could be more than 65,000 by 2030. Industry figures suggest this number may even reach 100,000.

“This shows how critical Quasar’s mission is. Many of the satellites in orbit are used for intelligence and counterintelligence purposes. Existing passive RF technologies have gaps in their monitoring and characterization capabilities. It is now imperative to understand what adversarial nation states are doing in space, what data they are collecting, and what strategic decisions they will be making based on the information they have obtained,” says Phil Ridley, CEO at Quasar.

Quasar Sense is able to conduct detailed behavioral analysis of satellites of interest and deliver real-time data, irrespective of the satellites’ location in low, medium, or geostationary orbit. Comprehensive signal identification and analysis capabilities facilitate the capture, identification, cataloguing and cross referencing with the ground truth of every transmitting object within the entire operating frequency band of the array.

Quasar Sense constantly monitors satellites transmissions to detect interference and enables spatial location of jamming and spoofing activity. Finally, it provides mission critical support by analyzing all targets of Interest simultaneously with every pass.

“Through rigorous testing we have demonstrated our phased array can track multiple satellites in the sky, across multiple orbits, simultaneously. That means government, defense and intelligence agencies can ‘hear the whole sky’ to access provide real-time, actionable radio-frequency information

to characterize objects and detect anomalies in real-time. That data is invaluable to rapidly determine geopolitical activity and is a crucial asset for military, national security, and intelligence initiatives. There is no other technology today which has this ability,” adds Ridley.

Quasar Sense’s sophisticated technology will only be available to Five Eyes and Quad nations and allies. The US is the primary target market for the solution, alongside Australia, the United Kingdom, India, South Korea, Japan, and New Zealand. Quasar will be opening its USA offices during the second quarter of 2024.

Quasar Sense effectively replaces hectares of traditional and mechanically steered parabolical dishes using outdated technology, making them redundant.

About Quasar Satellite Technologies

Quasar Satellite Technologies was born in 2021 from a partnership with Australia’s national science agency, CSIRO, repurposing advanced technology developed over the past decade for radio, Astronomy. Quasar’s mission is to provide scalable, cost-effective ground station service solutions for space communications and space domain awareness.

Media Contact for Quasar Satellite Technologies

Evan Bloom
Fortress Strategic Communications for Quasar Satellite Technologies
P: +3157444912
E: evan@fortresscomms.com

About the Space Force Association:
The Space Force Association (SFA) is the only independent, 501(c)(3) non-profit organization that serves as a professional military association whose sole focus is supporting the United States Space Force, United States Space Command, U.S. national spacepower at large, and our global partners and allies' efforts in space exploration. Its core functions are to research, inform, and advocate for superior spacepower by shaping a Space Force that provides credible deterrence in competition, dominant capability in combat, and professional services for all partners. In addition, the SFA has an essential function of supporting the men and women of the U.S. Space Force. Membership is open to both military and civilians. For more information on the SFA, please visit ussfa.org.

Rhonda Sheya
Space Force Association
+1 720-345-4969
rhonda.sheya@ussfa.org
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