

RF & Communications Emerging Company Report

55 Companies | February 2026

Version 2.0

LLM-classified by SBIR portfolio analysis

Scored against FY2026 President's Budget growth rates

Analyst's Note

RF Hardware Universe: 55 companies out of 1,038 classified startups (5.3%) - a focused vertical with clear technology differentiation.

Policy Tailwinds:

- Space communications (+38% FY26 budget growth) - dominant priority
- Electronic warfare (+10%) - counter-spectrum capabilities
- JADC2 (+10%) - tactical mesh networking

Policy Headwind:

- Hypersonics-adjacent RF (-43%) - budget pressure

Execution Status: 2 of 55 companies have converted SBIR to production contracts, totaling \$27.7M in contract value.

Geographic: 2 companies flagged for Pacific/Indo-Pacific relevance.

Ranked Prospect List

#	Company	Combined	Composite	Tailwind	Contracts	Priority
1	PHASE SENSITIVE INNOVATIONS ...	0.806	5.47	0.475	\$8.9M	electronic_warfare
2	AscendArc, Inc.	0.595	4.50	0.494	-	space_resilience
3	SCIENCE ENGINEERING MANAGEME...	0.553	2.55	0.300	\$18.7M	-
4	Fuse Federal Enterprise, LLC	0.498	2.42	0.649	-	space_resilience
5	TERASPATIAL INC	0.494	2.90	0.524	-	space_resilience
6	MTRI INC, dba Balto Innovati...	0.471	2.66	0.502	-	electronic_warfare
7	INFORMATION SYSTEMS LABORATO...	0.463	2.05	0.616	-	space_resilience
8	FOURTH STATE COMMUNICATIONS,...	0.461	2.55	0.495	-	contested_logistics
9	RECON RF, INC.	0.455	2.48	0.492	-	space_resilience
10	ONENAV, INC	0.442	2.20	0.512	-	space_resilience
11	SOLSTAR SPACE COMPANY	0.435	2.05	0.523	-	space_resilience
12	XL SCIENTIFIC LLC	0.425	2.25	0.443	-	electronic_warfare
13	MATRIXSPACE, INC	0.410	1.50	0.566	-	space_resilience
14	CHAOS 1, INC.	0.403	1.35	0.576	-	jadc2
15	UTVATE CORP	0.377	1.50	0.456	-	space_resilience
16	MONDE WIRELESS INC	0.370	1.40	0.455	-	electronic_warfare
17	Terra Quantum Falcon Inc.	0.355	0.70	0.563	-	cyber_offense_defens [P]
18	Whitefox Defense Technologie...	0.347	0.70	0.538	-	border_homeland
19	APOTHYM TECHNOLOGIES GROUP, ...	0.342	0.70	0.522	-	space_resilience
20	TIAMI NETWORKS	0.341	0.70	0.517	-	space_resilience
21	GLOBAL AIR LOGISTICS AND TRA...	0.334	0.70	0.496	-	jadc2 [P]
22	Waveye, Inc.	0.332	0.70	0.487	-	autonomous_systems
23	DISRUPTIVE ELECTRONIC WARFAR...	0.331	0.70	0.484	-	electronic_warfare
24	DIVERSIFIED TECHNOLOGIES, IN...	0.326	0.70	0.469	-	electronic_warfare
25	TeraDar, Inc.	0.325	0.70	0.464	-	autonomous_systems
26	DIGIBEAM CORPORATION	0.323	0.70	0.458	-	space_resilience
27	ALLUVIONIC INC.	0.322	0.70	0.454	-	jadc2
28	JULIA JEAN, LLC	0.321	0.70	0.450	-	electronic_warfare
29	JEEVA WIRELESS INC.	0.314	0.70	0.427	-	electronic_warfare
30	PRASAD, SARITA	0.311	0.70	0.417	-	electronic_warfare
31	Aperture Space, Inc.	0.306	0.00	0.562	-	space_resilience
32	Advanced Array Solutions	0.301	0.00	0.546	-	space_resilience
33	Leolabs Federal, Inc.	0.298	0.00	0.536	-	space_resilience
34	PRONTO.AI, INC.	0.298	0.00	0.534	-	jadc2
35	RAYN INNOVATIONS, LLC	0.295	0.00	0.525	-	space_resilience
36	NOKOMIS INC	0.294	0.00	0.523	-	space_resilience
37	W5 Technologies Inc	0.284	0.00	0.488	-	space_resilience

#	Company	Combined	Composite	Tailwind	Contracts	Priority
38	CYAN SYSTEMS, INC.	0.284	0.00	0.487	-	electronic_warfare
39	Gotenna, Inc.	0.281	0.00	0.480	-	jadc2
40	NAVSYS Corporation	0.278	0.00	0.470	-	space_resilience
41	ENGIN-IC INC	0.278	0.00	0.467	-	electronic_warfare
42	ADAPTIVE DYNAMICS, INC.	0.277	0.00	0.466	-	electronic_warfare
43	MAXENTRIC TECHNOLOGIES LLC	0.276	0.00	0.462	-	electronic_warfare
44	ROCKETSTAR, INC.	0.276	0.00	0.461	-	electronic_warfare
45	GRAFFITI ENTERPRISES LLC	0.274	0.00	0.455	-	jadc2
46	DISTRIBUTED SPECTRUM INC.	0.273	0.00	0.452	-	electronic_warfare
47	OPHILLIA HOLDINGS INC	0.269	0.00	0.439	-	space_resilience
48	DHARA CONSULTING GROUP, INC	0.269	0.00	0.439	-	electronic_warfare
49	SEQUENT LOGIC LLC	0.267	0.00	0.430	-	electronic_warfare
50	Doodle Labs LLC	0.265	-0.60	0.563	-	electronic_warfare
51	REACTION SYSTEMS, INC.	0.257	0.00	0.398	-	electronic_warfare
52	IDEAM TECHNOLOGIES LLC	0.246	0.00	0.361	-	border_homeland
53	INTEGRATED TACTICAL TECHNOLO...	0.241	-0.70	0.506	-	autonomous_systems
54	RADIABEAM TECHNOLOGIES, LLC	0.177	-1.40	0.452	-	nuclear_modernizatio
55	McQ Inc.	0.167	-1.40	0.418	-	electronic_warfare

Top 10 Detailed Profiles

1. PHASE SENSITIVE INNOVATIONS INC

Location: NEWARK, Delaware

Combined: 0.806 | Composite: 5.47 | Tailwind: 0.475 | Contracts: \$8.9M

Priority Alignment: electronic_warfare, border_homeland

The company's RADS radar disruption system directly addresses electronic warfare requirements for radar jamming, while their broadband optical comb technology supports precision timing/navigation applications relevant to counter-drone and border security operations.

2. AscendArc, Inc.

Location: PORTLAND, Oregon

Combined: 0.595 | Composite: 4.50 | Tailwind: 0.494

Priority Alignment: space_resilience, jadc2

AscendArc's RF hardware expertise directly supports space communications resilience through their geosynchronous satellite communication awards, which are critical for maintaining space-based connectivity. Their scalable bandwidth solutions also contribute to joint command and control networks that ...

3. SCIENCE ENGINEERING MANAGEMENT SOLUTIONS LLC

Location: ALBUQUERQUE, New Mexico

Combined: 0.553 | Composite: 2.55 | Tailwind: 0.300 | Contracts: \$18.7M

The company's RF hardware and linear accelerator expertise has only tangential relevance to defense priorities, with the most applicable area being electronic warfare where RF technologies could support radar and communications systems.

4. Fuse Federal Enterprise, LLC

Location: PALO ALTO, California

Combined: 0.498 | Composite: 2.42 | Tailwind: 0.649

Priority Alignment: space_resilience, nuclear_modernization

Fuse Federal's EMP generation technology directly supports space resilience by enabling satellite hardening tests and nuclear threat simulation capabilities critical to both space domain protection and strategic deterrence modernization programs.

5. TERASPATIAL INC

Location: PALO ALTO, California

Combined: 0.494 | Composite: 2.90 | Tailwind: 0.524

Priority Alignment: space_resilience, contested_logistics, electronic_warfare, jadc2

TerraSpatial's AI-infused mmWave beamforming technology directly supports space SATCOM resilience and directional networking across air, space, and ground domains. Their highly-integrated RF hardware approach enables secure, targeted communications essential for contested environments and multi-doma...

6. MTRI INC, dba Balto Innovations

Location: ANN ARBOR, Michigan

Combined: 0.471 | Composite: 2.66 | Tailwind: 0.502

Priority Alignment: electronic_warfare, space_resilience, jadc2

MTRI's RF hardware expertise directly supports electronic warfare through advanced sensing capabilities (SWAMI project for sub-wavelength information gathering), while also providing moderate alignment with space domain awareness and sensor integration for JADC2 networks.

7. INFORMATION SYSTEMS LABORATORIES INC

Location: POWAY, California

Combined: 0.463 | Composite: 2.05 | Tailwind: 0.616

Priority Alignment: space_resilience, electronic_warfare

Information Systems Laboratories demonstrates strong capabilities in space-based spectrum warfare and electronic warfare through their satellite aggressor tools and adaptive radar systems, directly supporting space domain operations and electronic warfare priorities.

8. FOURTH STATE COMMUNICATIONS, LLC

Location: CHEYENNE, Wyoming

Combined: 0.461 | Composite: 2.55 | Tailwind: 0.495

Priority Alignment: contested_logistics, jadc2

Fourth State Communications specializes in Beyond Line of Sight (BLOS) communications solutions for contested environments, directly supporting distributed operations and command/control connectivity. Their focus on SWaP (Size, Weight, and Power) improvements and enhanced thermo-scatter communicatio...

9. RECON RF, INC.

Location: SAN DIEGO, California

Combined: 0.455 | Composite: 2.48 | Tailwind: 0.492

Priority Alignment: space_resilience, contested_logistics, electronic_warfare, jadc2

Recon RF's ultra-efficient RFIC power amplifiers for phased-array communications directly support space-based SATCOM systems and mesh networks critical for resilient communications. Their RF hardware expertise enables high-efficiency communications systems essential for contested environments and di...

10. ONENAV, INC

Location: SUNNYVALE, California

Combined: 0.442 | Composite: 2.20 | Tailwind: 0.512

Priority Alignment: space_resilience, autonomous_systems, electronic_warfare

ONENAV's jam-resistant L5-band GPS receiver technology directly supports space resilience through GPS alternatives and autonomous systems through assured navigation for drone operations, while also providing electronic warfare protection capabilities against GPS jamming.

Methodology

Scoring Formula:

Combined = $0.55 \times \text{norm_composite} + 0.30 \times \text{policy_tailwind} + 0.15 \times \text{contract_tier}$

Where:

- $\text{norm_composite} = \min(1.0, (\text{composite_score} + 2) / 8)$
- $\text{policy_tailwind} = \text{budget-weighted NDS priority alignment (0-1)}$
- $\text{contract_tier} = 0.0 \text{ (none)}, 0.5 (<\$1\text{M}), 1.0 (>=\$1\text{M})$

Data Sources:

1. SBIR Awards: Phase I, II, III from sbir.gov (2020-2025)
2. Contracts: USAspending federal contract data
3. Policy Alignment: LLM-scored against FY2026 President's Budget
4. Classification: LLM-analyzed core business from SBIR portfolios

RF Hardware Classification Criteria:

- RF transceivers, amplifiers, front-end modules
- Antenna systems (phased arrays, conformal, deployable)
- Radar hardware or components
- Electronic warfare hardware
- Satellite communication terminals
- Software-defined radio platforms