



RADIO
FREQUENCY
SYSTEMS

High Frequency (HF) and Defense Solutions

WE GO THE DISTANCE

to meet your needs





What it takes to be a strategic partner in the HF and defense markets

RFS is the trusted partner to defense organizations, prime contractors and government departments around the globe, and **we have been for decades.**

We've provided **advanced HF solutions and services** to support strategically and tactically important deployments around the world, including:

- The New Zealand Defence High Frequency Communications Service
- The Jindalee Operational Radar Network (JORN) in Australia
- HF modernization projects across Australia
- UN peacekeeping forces network
- The NOSTRADAMUS over-the-horizon radar network in France
- The High-frequency Active Auroral Research Program (HAARP) in the U.S.
- The Relocatable Over-the-Horizon Radar (ROTHR) network in the U.S.

We've also supplied and installed **numerous HF and tactical antennas** for the French army, the Australian army, and throughout the varied environmental conditions of the Middle East, Sweden, Philippines, Bangladesh and Papua New Guinea.

Our customers know they can rely on us to deliver HF solutions and services that meet the most demanding military and civilian communications requirements across short, medium and long-distance coverage areas, and in the harshest environments.

**RFS IS THE
TRUSTED PARTNER
to defense
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and we have been
FOR DECADES**

A large, abstract red graphic on the right side of the slide. It features a central vertical line from which numerous other lines radiate outwards, creating a cone-like or umbrella-like shape. These lines intersect to form a series of horizontal ellipses, giving the impression of a 3D wireframe structure. The background behind this graphic is a faint, light-colored grid pattern.



Innovative HF solutions fully customized for specific applications

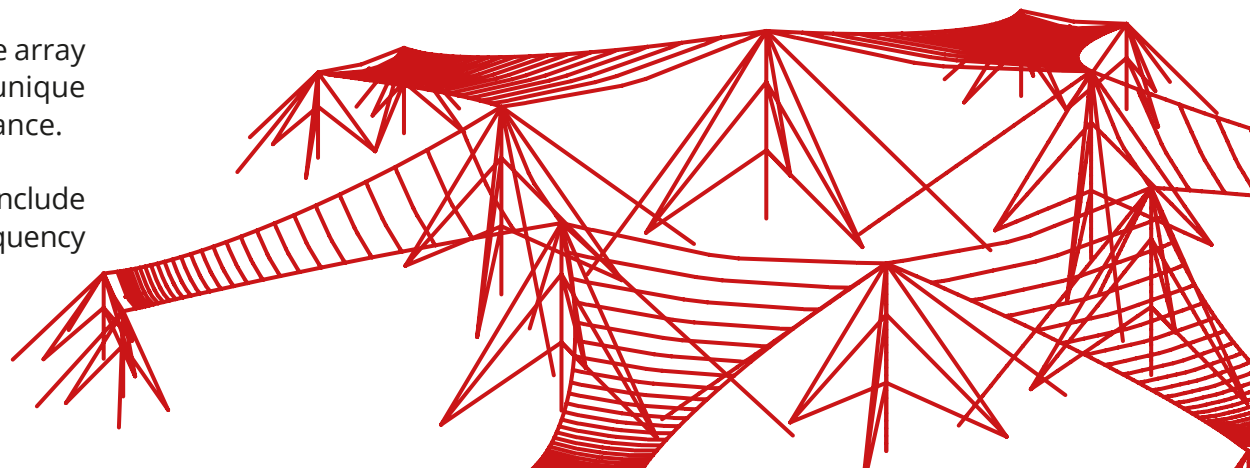
We offer **more than 18 broadband HF antenna designs** — from horizontal and vertical log periodics and broadband monopoles to tactical antennas, biconical dipoles, standard and tandem deltas and rotatable log periodics.

We also provide 8- and 9-inch air-dielectric coaxial cables to support **very-high-power medium frequency (MF) and HF applications**.

We have the expertise and experience to **design and adapt HF solutions** to meet the most specialized requirements:

- Several of our innovative HF antenna designs, large array systems and over-the-horizon radar systems are unique in the world and deliver groundbreaking performance.
- To improve coastal surveillance capabilities, we include our superior antenna designs in advanced High Frequency Surface Wave Radar (HFSWR) solutions.

**MORE THAN
18 BROADBAND
HF antenna
designs**





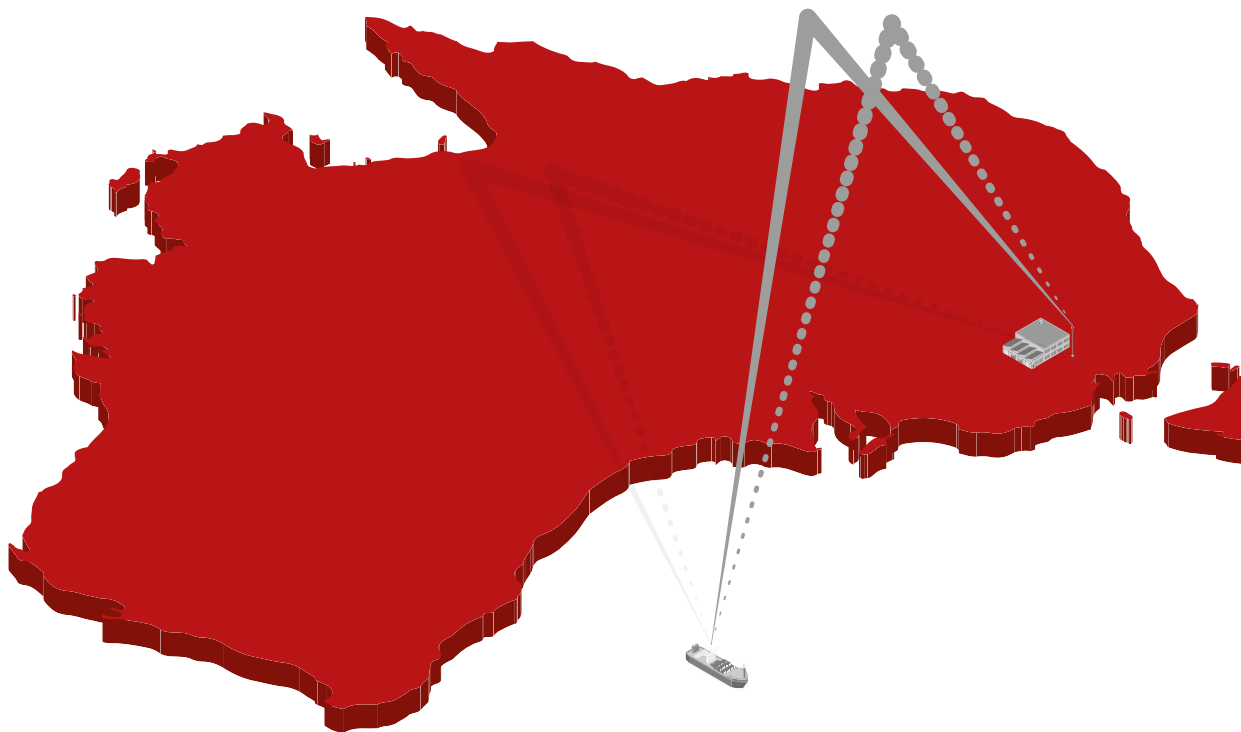
Leading-edge solutions that perform for decades in the field

HF system projects we were involved in 30 years ago are **still considered to be leading edge**. And many have not required significant investments for 20-plus years.

We understand how the latest HF standards and solutions affect existing infrastructure and active equipment, whether that equipment is transmitting or receiving communications.

When our customers are ready to upgrade, **we help them choose and install the optimal solutions to modernize and digitize existing deployments** to increase efficiency and support the next generations of HF communications.

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End-to-end communications solutions for any platform, any application

With our complete portfolio of **commercial antennas and 5G-ready cables**, we're ready to support non-mission-critical and commercial radio applications at sea, in the air and on the ground. Here are just four examples of how our innovations can be used:

- **DragonSkin™**, the first and only in-building coaxial cable that's proven to maintain communications while exposed to temperatures up to 1010 °C (1850 °F) for a minimum of two hours is the best choice for any indoor environment where fire safety is paramount — even naval vessels.
- Our **RADIAFLEX®** radiating cables are the only radiating cables to support all frequencies between 610 MHz and 3.8 GHz with no stopbands. They're ideal to take advantage of 3.5 GHz spectrum and accelerate to 5G in buildings, tunnels and underground environments.
- Our ingenious, modular **base station antennas** combine frequencies and network technologies — including 5G — in a single compact antenna to support Internet of Things (IoT) and other next-gen applications.
- We offer a full range of **microwave antennas** from 3 GHz to 80 GHz and in sizes ranging from 13 cm to 4.6 m to support point-to-point communications and 5G backhauling.

WE'RE READY
to support non-mission-critical
and commercial radio applications
**AT SEA, IN THE AIR
AND ON THE GROUND**





The right solutions and services for each project

Our relationships with our customers go **well beyond solution design and delivery.**

We partner closely with each organization to help them design, install, commission and maintain **end-to-end communications solutions.** And they're not always our solutions. If a third-party solution gives our customer the best outcome, that's the solution we recommend and work with.

No matter which solutions our customers choose, **we can provide a complete set of support services,** from requirements analysis, interference modeling and system design to system integration, maintenance and life cycle management.

We adapt our solutions and services to your needs, **no matter how complex or challenging.** When an RFS customer was installing an HF antenna in an extremely harsh environment, we broke the antenna down into its component parts and staggered deliveries to match weather patterns and installation tasks. We will always do whatever it takes.

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**NO MATTER
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OR CHALLENGING**





RADIO FREQUENCY SYSTEMS



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to learn how we can go the distance to meet your needs.

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