

# Ultra-Wideband Radome

*Designed to support next-generation integrated sensors and multi-function arrays*



Increased functionality over wide  
frequency spectrums

Tailorable to integrated forebody (IFB) and different  
conformal geometries

Maturing Technology Readiness Level (TRL) and  
Manufacturing Readiness Level (MRL)

Suited for incorporation of  
survivability requirements

## **Designed for next-generation air dominance platforms and collaborative combat aircraft**

General Dynamics Mission Systems' new ultra-wideband (UWB) radome wall designs enable optimal performance of next-generation integrated sensors and multi-function arrays being designed for next-generation air dominance platforms and collaborative combat aircraft.

The UWB radome wall design is tailorable to a chined integrated forebody (IFB) and conformal geometries. These UWB radomes build upon General Dynamics' proven performance with legacy narrowband radome designs and current wideband radome designs – and extend the performance over very wide frequency bands.

General Dynamics has fabricated IFB risk-reduction prototype(s) for laboratory ground testing and potential future flight testing, increasing technology readiness level (TRL) and manufacturing readiness level (MRL) and reducing risk for future programs.

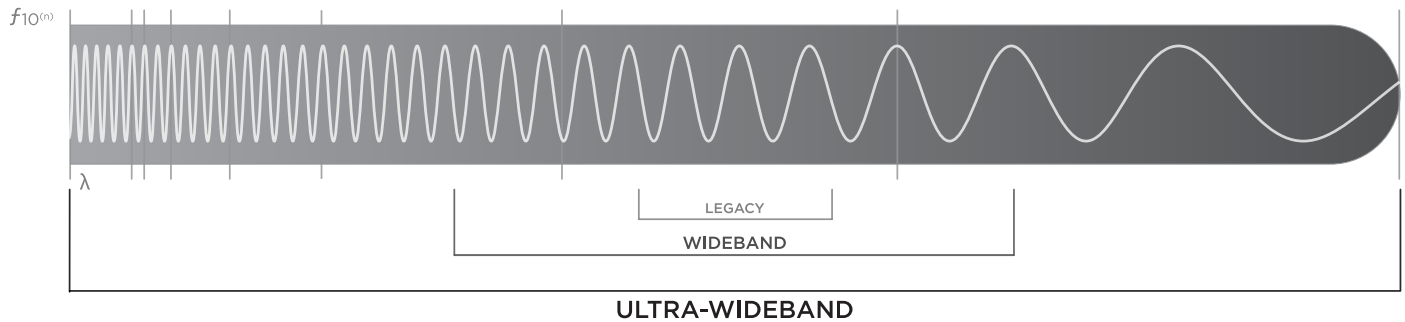
## **Leveraged Experience**

- Over 75 years of radome design, manufacturing, and testing experience
- Developed radomes for more than 50 aircraft platforms
- Produced in excess of 65,000 radomes of various shapes, sizes and applications
- Leader in wideband radomes including the F/A-18E/F, EA-18G, F-15E/EX, and F-35 A/B/C

# Ultra-Wideband Radome

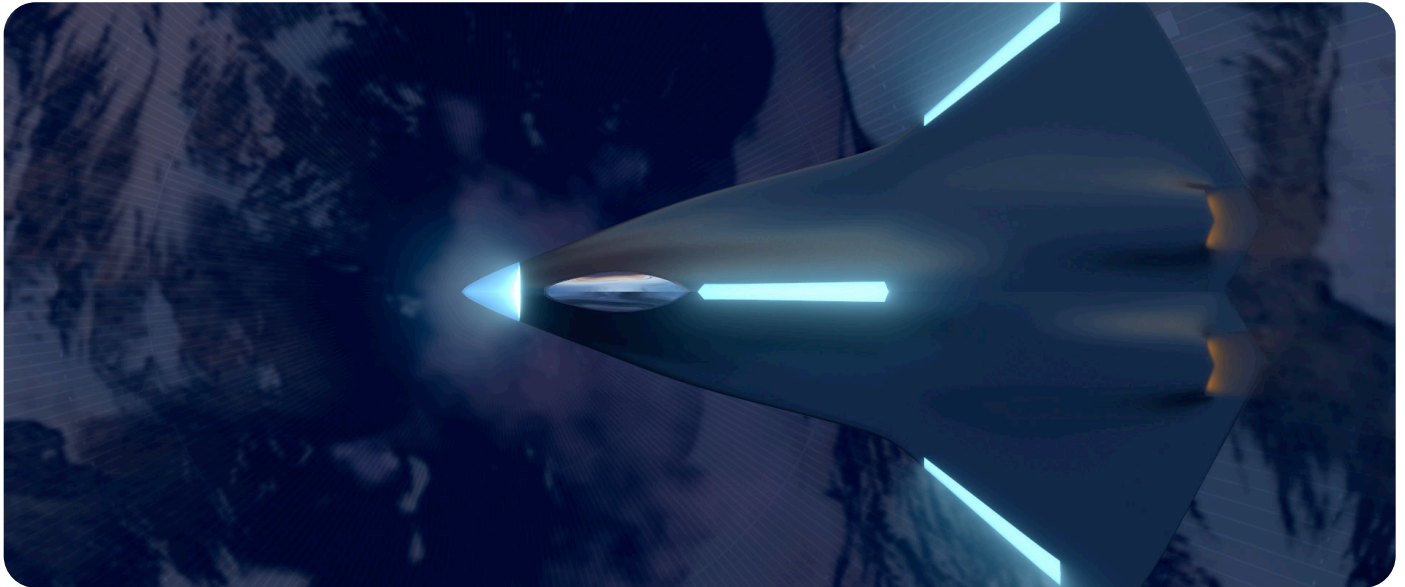
## The UWB radome wall design offers:

- Significantly broader frequency performance over both legacy and current wideband radome wall designs
- Design can be customized for specific missions



## The UWB radome has broad application:

The UWB radome wall design can be tailored to integrated forebodies (IFB) and different conformal geometries to match integrated sensor and Multi-Function Array (MFA) location on the platform (examples shown below).



**GENERAL DYNAMICS**  
Mission Systems

FOR MORE INFORMATION, PLEASE CONTACT:

Geoff Caywood • [geoff.caywood@gd-ms.com](mailto:geoff.caywood@gd-ms.com) • +1.276.780.8622 • 150 Johnston Road, Marion, VA 24354

©2023 General Dynamics. All rights reserved. General Dynamics reserves the right to make changes in its products and specifications at anytime and without notice. All trademarks indicated as such herein are trademarks of General Dynamics.

D-UltraWidebandRadome-01-0823

PRI-2309-0003