

Department of the Navy SBIR/STTR Transition Program

Statement A: Approved for Release. Distribution is unlimited.

NAVSEA #

Topic # NUWC-2

Microstrip Patch Antenna

Naval Undersea Warfare Center Newport

WHO

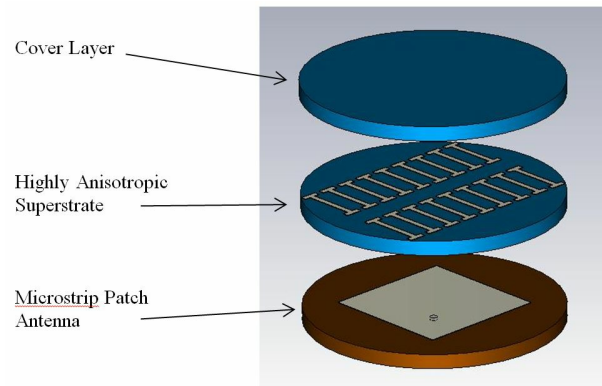
SYSCOM: NAVSEA

Sponsoring Program:

Transition Target:

TPOC:

Other transition opportunities:



WHAT

Operational Need and Improvement:

Specifications Required:

Technology Developed: Robust, fault tolerant design offers substantial potential to easily retrofit and greatly improve performance and capabilities of existing patch antennas without altering the device footprint. The bandwidth of a prototyped GPS antenna was increased from a typical 2-5% to 20-25%. A highly anisotropic superstrate layer is placed over an existing patch antenna as a retrofit or incorporated into new systems to enable broader bandwidth capabilities for a given antenna while not compromising other performance characteristics. Substantial bandwidth improvement enables diverse, multiple capabilities from a single antenna (e.g. satellite telephone and GPS) and higher data transfer rates. Protected under US Pat. No. 9,281,568.

Warfighter Value:

WHEN

Contract Number: T2-ORTA-NUWC-2

Milestone	Risk Level	Measure of Success	Ending TRL	Date
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HOW

Projected Business Model:

Company Objectives:

Potential Commercial Applications:

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