



MULTIFUNCTION MODULAR MAST (MMM)

ENABLING SUBMARINE COMMUNICATIONS & EW

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Program Overview

The AN/BSD-2 Multifunction Modular Mast (MMM) is the program-of-record electronic support mast for new construction Virginia-class attack submarines and for retrofits of existing Virginia- and Los Angeles-class attack submarines. The MMM provides a low-observable, non-rotating omni-directional antenna that supports communications acquisition, direction finding (DF), and a removable module for mission-specific payloads.



Payload Overview

The removable payload module can be configured to support:

- UAV command and control links
- Line-of-sight communications for surface or airborne assets
- Electronic Warfare (EW) functions for signal interception and analysis



Key Capabilities

- Broadband RF signal acquisition across the communications spectrum for signal capture, DF, band selection, and connectivity to the Above Deck Sensor Unit (ADSU), enabling integration of special operations payloads.
- Removable payload module provides on-demand capability for UAV command & control, line-of-sight communications, and electronic warfare (EW).
- End-to-end RF built-in-test (BIT) support ensures the mast is fully verified from antenna to hull penetrators.



System Architecture

The MMM is comprised of modular, interchangeable elements, each housed in a low-observable radome.

All hardware is supplied by Lockheed Martin and its subcontractors and is fully compatible with existing submarine hull interfaces.

