Wireless Remote Operations Control Kit

Easy-to-Deploy SmartShip Remote Operations Support

The Wireless Remote Operations Control Kit (W-ROCK) supports Naval Calibration and Maintenance Efforts and Teams in the conduct of shipboard-installed machinery instrumentation and Systems Calibration and Maintenance by combining two successful, Navy shipboard-tested and certified SBIR technologies into a self-contained kit for use in many operational environments. These technologies are integrated into the W-ROCK with MIL-Standard connectors, console management software/interface hardware, and internal power management to facilitate remote operations in multiple environments.

Shipboard Ready Solution:
Wireless-Remote Operational Console Kit (W-ROCK)

WAP
POWER SUPPLY
ROUTER KVM Over IP
Interface Cable
W-ROCK

HM&E Console
Installed Shipboard Equipment

FIPS 140-2 Compliant Wireless AP (Master)
[SBIR Tech]

Navy-developed Ruggedized Tablet for Shipboard Wireless Maintenance Assistance
[SBIR Tech]

The W-ROCK system specifically supports remote operations for SmartShip console extension, data capture, documentation review/reporting, and quality management - reducing the time required to perform calibrations and maintenance by providing electronic access to:

▶ Shipboard Instrumentation and Systems Calibration (SISCAL).
▶ Maintenance Requirements Card (MRC) procedures.
▶ Asset Management Logistics (via DoD and Navy Item Unique Identification Barcode integration).
▶ Procedure Look-up and Completion/Scheduling Tracking.

W-ROCK Enhances Naval Operational Sustainment Capabilities:
W-ROCK enhances readiness, operational effectiveness, and productivity on most naval surface platforms by facilitating information integration from multiple legacy software platforms and quick, responsive support tools into the hands of logistics and maintenance providers - while providing "reach back" access to senior support staff, on ship or via remote.

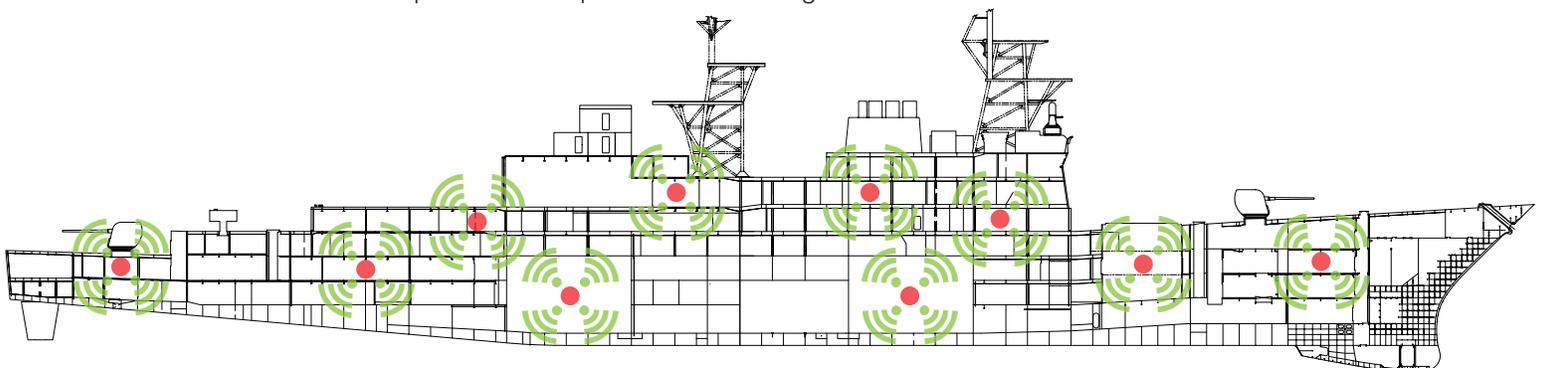### W-ROCK Accelerates Military Development Capabilities:
W-ROCK reduces the manpower and time requirements for the hundreds to thousands of calibration and maintenance tasks being continuously performed on Navy ships, resulting in more efficient, effective, and timely upkeep of shipboard systems.

W-ROCK Provides Acquisition Development Cost Reductions:
W-ROCK combines SBIR and COTS technologies with proven track records to reduce hardware costs, while also requiring a low number of certifications and validations - keeping total acquisition development costs to a minimum.

W-ROCK Provides Fielded Systems Sustainment Cost Reductions:
Navy studies and resultant findings reflect that the use of W-ROCK-type devices for capture, processing and analysis of maintenance data reduces manpower task requirements an average of 30%.

W-ROCK Provides Remote Console Management from Disparate Shipboard Operational Locations