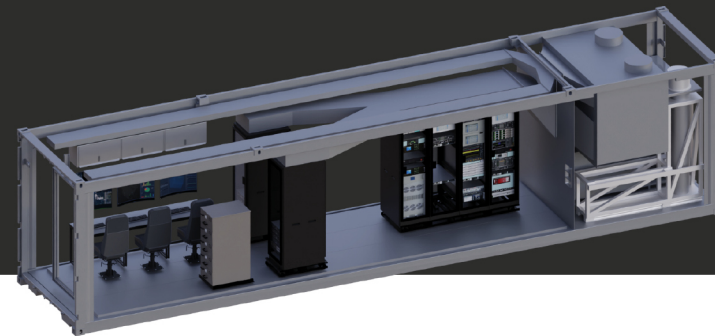# MOSAIC

MODULAR OPEN SYSTEM ARCHITECTURE INSTRUMENTATION CONTAINERS

MOSAIC Approach

Package mobile, standalone long-range missile test capability into containers that meet ISO standards that can be placed on many different types of leased ships or be deployed on land at any desired test location

INCLUDES

- Telemetry*
- Flight Safety*
- SATCOM
- Weather Data Collection Capabilities

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* Telemetry and Flight Safety are both comprised of two fully independent, redundant strings

PHYSICAL ARCHITECTURE

- 40' ISO Containers for Equipment & Operators
- 20' Containers for Sensors & Emitters
- 20' Mobile Power Container

COMMUNICATIONS & ELECTRICAL STANDARDS

- 2-Source Power Connections; 120/208VAC 3Ph 60Hz
- Integrated Battery Power
- Dual Integrated Networks Capable of Two Different Classifications

COMMAND & CONTROL ARCHITECTURE

- Internal: TENA & Agile Forge Integrate Subsystems to Enable C2, Situational Awareness, and Automation
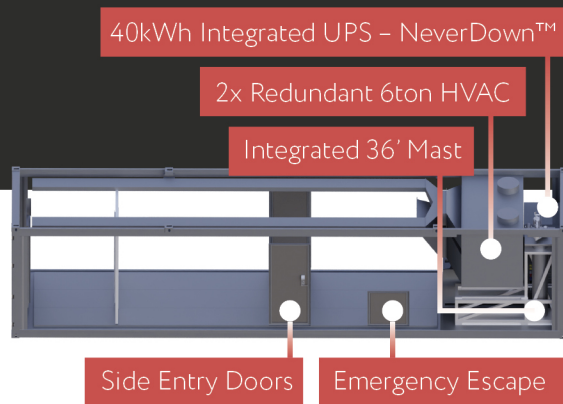- External: TENA, Agile Forge, & Strip-and-Ship

GEEKS AND NERDS.COM

40kWh Integrated UPS – NeverDown™

2x Redundant 6ton HVAC

Integrated 36' Mast

Side Entry Doors

Emergency Escape

Automated Retracting Roof

Automated Lift

16kWh Integrated UPS – NeverDown™

Backend Module (String A)

C2 Module
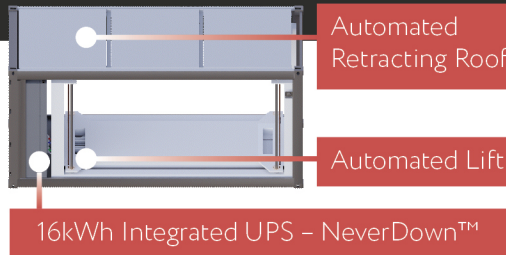
Backend Module (String B)

40' High-Cube ContainerMultipurpose Portable Accommodation Module (PAM) Frame

COMMONALITY

· Design Used for both Backend and C2 Modules
· Common Frame, Doors, HVAC, UPS, and Masts

PAM REQUIREMENTS

· Meets U.S. Coast Guard Required PAM Requirements
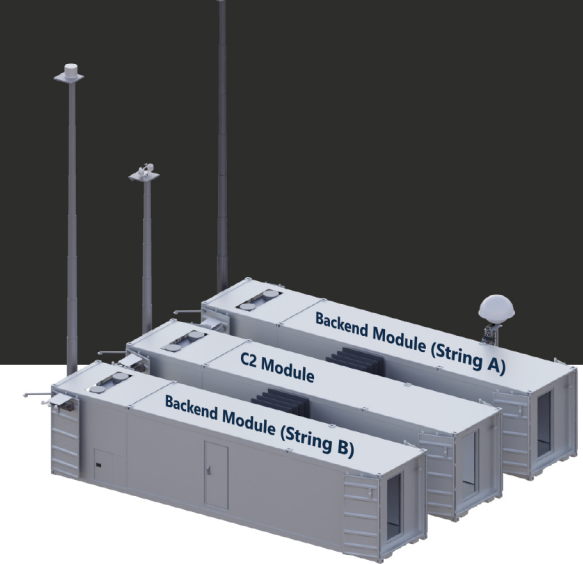· PAM ensures Life Safety at Sea for Operators

20' High-Cube ContainerSensor Module

COMMONALITY

· Design Used for both TM Frontend and FSS Frontend Modules
· Common Lift, Retracting Roof, and Integrated UPS
· Extensible Design Ready for Future Payloads

SUPPORTS SENSORS UP TO

Weight	10,000lbs	**Width**	7'2"
Length	16'3"	**Height**	7'8"

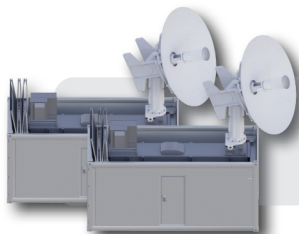## Multipurpose Portable Accommodation Module (PAM) Frame

Designed to support Optics, Radar, or Other Backend Equipment
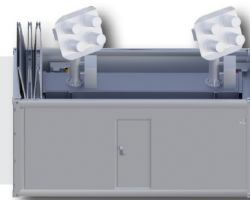
Multipurpose PAM: C2 Module

Extensible to Support Any Expeditionary C2 Needs
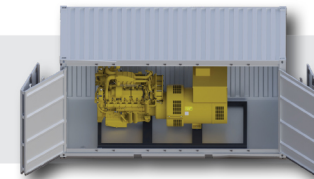
Multipurpose PAM: Backend Module

· Could be Used to Support TM Only Mission without Redundancy Requirements
· Designed to support Optics, Radar, or Other Backend Equipment

Separate 20' TM Antenna Modules

Single 20' FSS Antenna Modulefor 2x FSS Frontends

Power Module

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