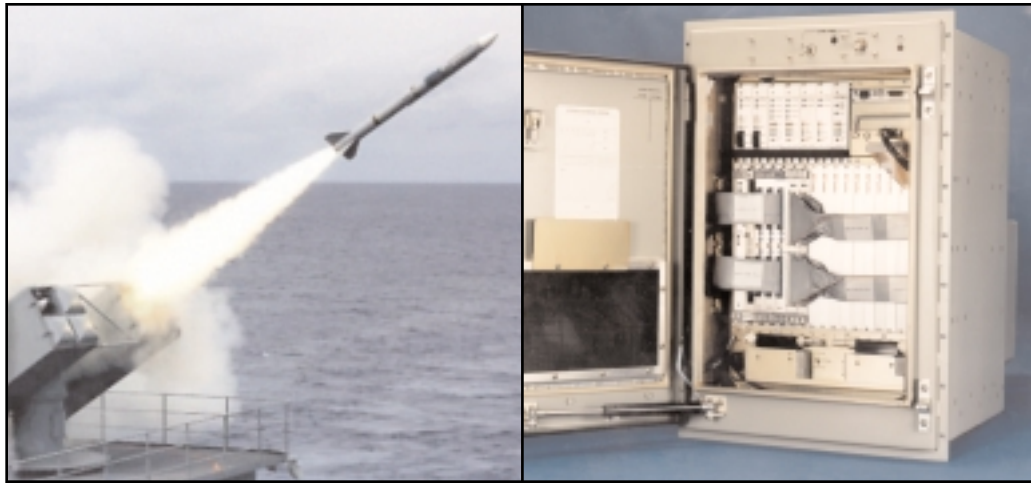


Application Note

Rugged System For Weapons Launch Control

Maritime system utilizes AP Labs fault-isolation and auto-boot software to increase system reliability



The systems shown are used to control the launch and tracking of maritime surface-to-surface missiles. The rugged systems - integrated and tested by AP Labs - utilize several AP Labs software components.

The software components include the AP Labs Fault Isolation Software Package, Auto Sequence Booting, and Device Drivers/Software.

The AP Labs Fault Isolation software is fully integrated into each chassis providing an automatic self test capability for the chassis and its components. System readiness is thereby verified before the system is declared operational. This self test capability is accessible through a built in test panel in the enclosure or via a laptop utilizing a self test designated serial port, both accessible through the front door of the chassis.

The AP Labs Auto-Sequence Boot software enables the system to try automatic redundant sources for system boot.

- *AP Labs Fault Isolation Software validates system status/readiness before use*
- *Auto Sequence Booting allows for automatic booting from one of several different sources:
If one source is unavailable Auto Sequence Booting attempts to boot from a defined set of alternate sources including SCSI disk, flash or over the network*
- *Other interfaces supported with driver software:*
 - Analog to Digital
 - MIL-STD 1553
 - IRIG Time Code
 - NTDS
 - Synchro Resolver
 - Digital Input/Output