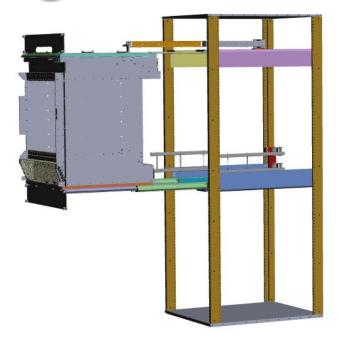


Taking NEBS to Sea



How ATCA Was Adapted to Survive

Aboard Ship While Maintaining "Open-ness"



Why Aegis Selected ATCA for TI-16?



(TI – Technical Insertion)



ATCA Design Decision

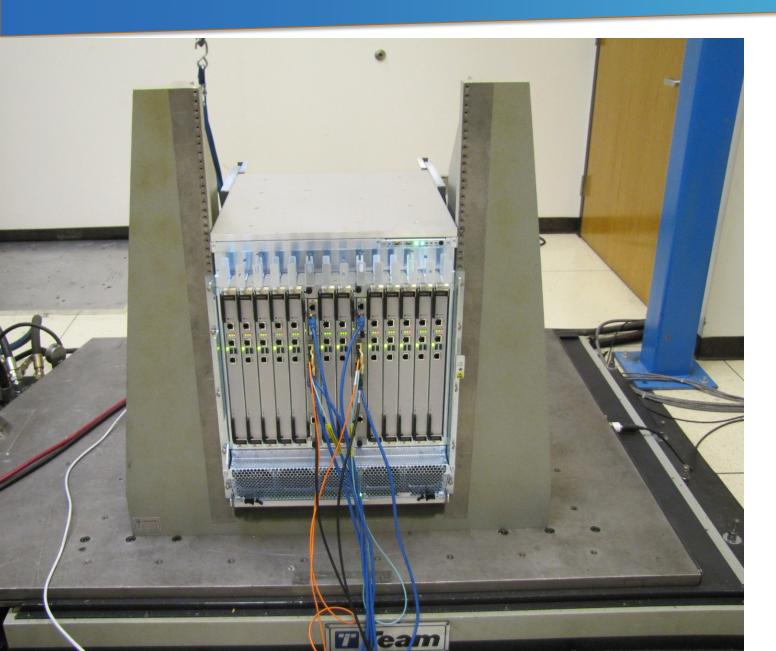
- Bladed Architecture
- Good Performance to Space Ratio
- Reduced Cabling for 40G Network
- Cost Competitive
- Good Power Consumption
- Long Life

•OPEN ARCHITECTURE



NEBS Standard was Insufficient





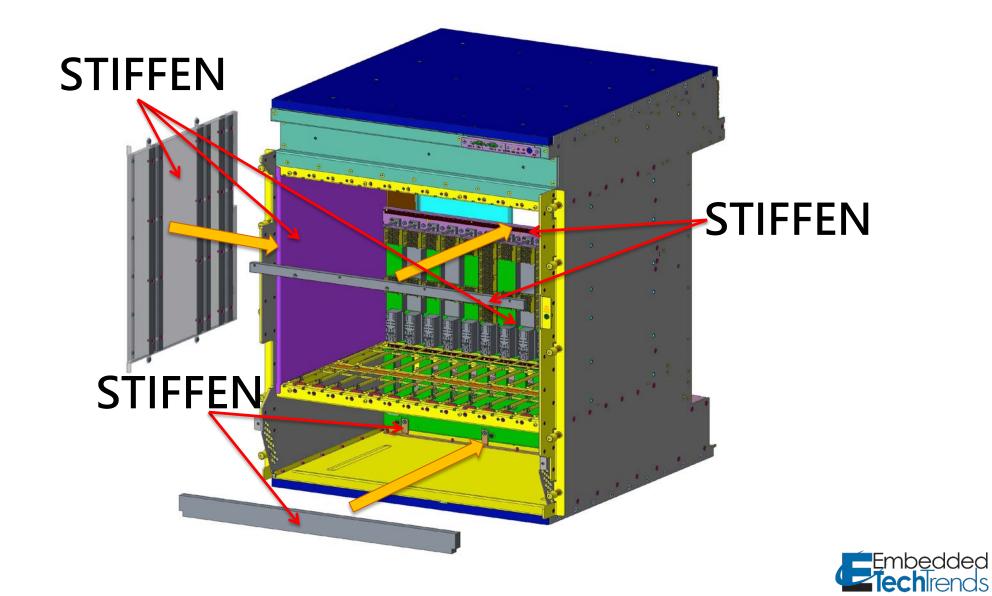
Vibration Operational (endurance): X Axis : Side-to-side (60 minutes) – 1.6G Z Axis : Front-to-Back (40 minutes) - 2.5G Y Axis : Vertical (60 minutes) – 1.9G

Shock Operational:

Y-axis: approx. 18-20G Z and X axis: approx. 10-12G



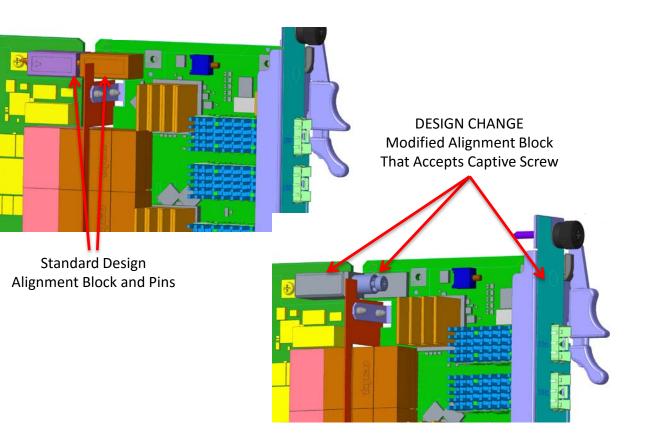




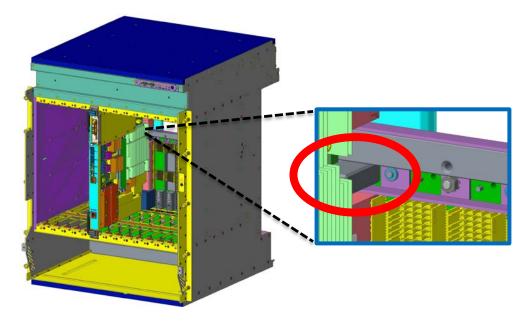
Payload Attachments

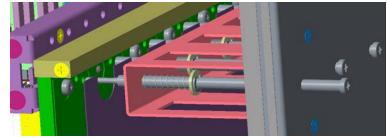


RTM ATTACHMENT



PAYLOAD ATTACHMENT









- Strengthen the Original Enclosure
- Attach the Payload Boards to the Backplane
- Attach the RTM's to the Payload Boards
- RTM and Board Attachment Points
 - Modified Board Alignment Blocks on Board
 - Captive Screws for Attachment Blocks, Part of Chassis
- Third Party Products Easily Modified to Work in Chassis
- Maintained Critical Part of Design Decision,

Ruggedize ATCA Beyond NEBS, Maintain Open-ness

