OPEN ARCHITECTURE PROCESSOR

ONE PROCESSING SOLUTION FOR A WIDE RANGE OF APPLICATIONS.

LOCKHEED MARTIN

We never forget who we're working for ®

A POWERFUL PROCESSOR FOR MANY MISSIONS

Lockheed Martin's Open Architecture Processor (OAP) controls and processes information from multiple sensors and self-defense systems and drives a variety of information displays.

It uses widely-supported standard interfaces that allow maintainers to add, upgrade and swap out sensor and display system components as required. Open architecture and a modular framework enable interchangeable systems and eliminate the need for multiple proprietary processors that compete for a platform's limited space, weight and power.

The OAP supports application architectures for degraded visual environments, pilotage, situational awareness, active protection, reconnaissance and surveillance, fire control, targeting and hostile fire.

Current prototype units offer the flexibility to easily and affordably upgrade and integrate emerging self-defense technology across ground, air and maritime platforms as it becomes available.

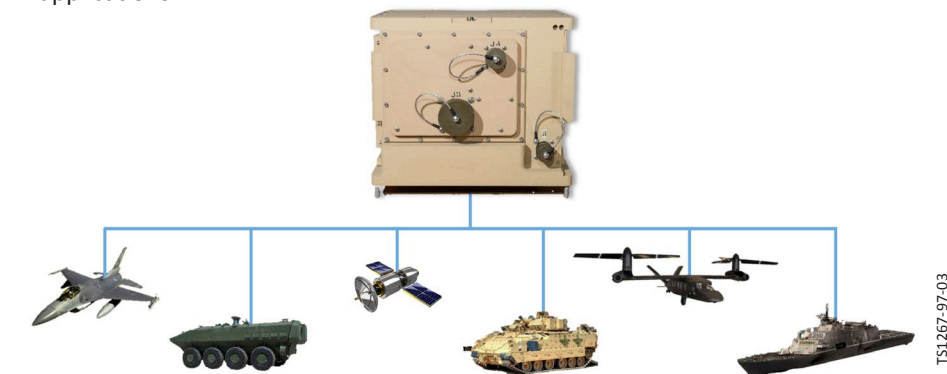**The OAP is a key enabler to making scalable defensive systems that can rapidly adjust to combat realities.**

DESIGNED FOR TODAY AND TOMORROW

OAP supports application architectures for degraded visual environments, pilotage, situation awareness, active protection, reconnaissance, fire control, targeting and hostile fire. A unique feature set addresses a broad range of mission needs:

• Open Architecture – Based on COTS embedded processing modules, enables multiple applications

• Versatility – Uses a unique backplane that mitigates interoperability issues and reduces chassis size/weight/cost

• Scalability – Supports digital signal processing for image and video management, from megaflops to teraflops

• Extensibility – Accommodates the fast rate of change in commercial processor technology

• Standard Operating Systems – Supports software portability and diverse applications

• Safety – Complies with safety standards

• Security – Incorporates anti-tamper and information assurance design features

• Durability – Uses 3μ OpenVPX chassis that is easier to cool, more rigid and compact

• Maintainability – Uses open architecture protocols designed for long program life cycles

• Environment Flexibility – Ruggedized, ready for use in air-cooled or liquid-cooled applications

OAP Applications