



Open Architecture Processor

Any System, any Platform, any Operational Environment.

OPEN ARCHITECTURE PROCESSOR

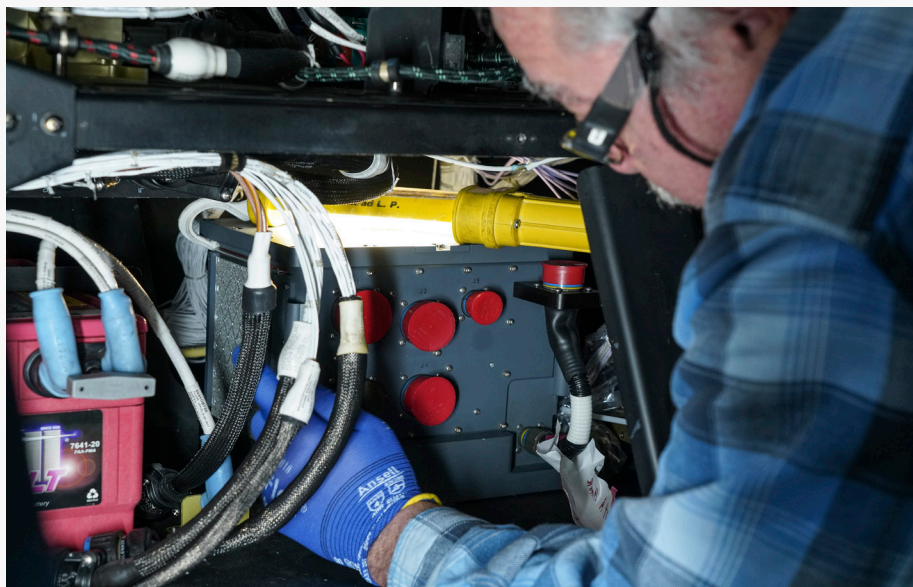
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A POWERFUL PROCESSOR FOR MANY MISSIONS

Lockheed Martin's Open Architecture Processor (OAP) is a common processor for multiple sensors and self-defense systems. Passive-, air- and liquid-cooled options support operation in ground, air and maritime platforms. OAP consolidates multiple proprietary processors into a single box, reducing space, weight and power.

OAP is designed with growth and sustainment in mind. It enables users to:

- Meet emerging threats by changing only the components necessary to defeat them... and keep one step ahead of adversaries
- Upgrade at the component level to reduce developmental cost, extend system life cycle and promote best-of-breed solutions by avoiding vendor lock
- Add new or improved components to all equipped platforms to lower risk and maximize return on development investments



The air-cooled OAP is delivering 360-degree imagery as part of the Pilotage Distributed Aperture Sensor (PDAS) system flying on the V-280.

Contact Information

Lockheed Martin Missiles and Fire Control
Business Development
Phone: (407) 356-7281
www.lockheedmartin.com/mfc

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 an active 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 3 μ OpenVPX chassis that is easier to cool, more rigid and compact
- Maintainability – Uses open architecture protocols, has been designed for long program life cycles
- Environment Flexibility – Ruggedized, ready for use in air-cooled or liquid-cooled applications



OAP Applications

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