MEETING REQUIREMENTS FOR THE NEXT GENERATION OF AIRCRAFT AND SYSTEMS

The Common Mission Processor (CMP) provides a complete and integrated solution of software and hardware products. With more than 50 years of processor technology, Lockheed Martin has a long legacy of providing cost-effective COTS-based and custom products to meet fixed and rotary wing mission and system requirements.

BENEFITS:
The CMP leverages the latest Open Architecture standards that were designed out of a need to meet requirements for the next generation of aircraft platforms and systems, including:

• Increasing reuse and reliability
• Decreasing time to deployment and development costs
• Stringent safety and security requirements
• Flexibility and scalability
• Optionally configured to support security requirements
• Easy upgrades and maintainability as technology advances
• Designed for ease of upgradability (COTS cards can easily be upgraded to the latest technology)
• Designed for configurability for mission requirements (multiple processing and I/O choices depending on program requirements)
• Designed to meet DO-178B/C safety-of-flight requirements
• Complete Life Cycle Support

HARDWARE FEATURES:
• VITA® OpenVPX 3U design
• Air flow through cooling (increased reliability – decreased mission down-time)
• Lightweight APEX™ composite chassis (meets strict avionics weight requirements and reduces production costs)
• Integrated Ethernet switch
• Provides support for both PPC and Intel processing
• Designed to support up to 12 display outputs
• Accommodates up to four 3U OpenVPX processor modules
• Accommodates up to two 3U OpenVPX graphics modules
• 28 VDC MIL-STD 704 power
• Qualified to the most stringent avionics environmental and EMI requirements

SOFTWARE FEATURES:
• Designed for FACE™ conformance
• Designed for Open Mission System (OMS) conformance
• Integrates with FACE™ software components for turn-key software integration onto a variety of platforms
• Comprehensive software infrastructure designed for safe and secure operations

COMMON COMPONENT LIBRARY
A repository designed to reduce program risk, recurring costs and increase speed to deployment. By building on a set of core software components, a library of assets is established for future platform integration.