

FEATURES & BENEFITS

● Prism Core Elements:

- Scheduled Technology Refresh
- Open/Modular
- Commonality with Other Programs
- Volume Production
- Affordable
- Mitigates Obsolescence
- Reduces Total Ownership Cost

● Architecture is Flexible & Scalable

- Standalone Processing or Major System Element
- Easy Insertion of Functions & Technology

● Open Software Architecture

- Customer OFF
- Third Party Applications
- Commercial, Certifiable Real-Time Operating System
- OpenGL® ES-SC
- ARINC 653 Partitioned

● Reduced Overall System Weight

● Reduced Overall System Power

● Exceptional Reliability & Maintainability

● Redundancy as Needed for Improved Availability

Prism. An Integrated, Scalable Avionics Architecture.

Display Systems

Prism

INTEGRATED AVIONICS SYSTEM



High Performance Computing and Visualization Platform that Supports:

- Integrated Cockpit Systems
- Mission Processing
- Communications Processing
- Advanced Video Processing



communications

Display Systems

1355 Bluegrass Lakes Parkway

Alpharetta, GA 30004

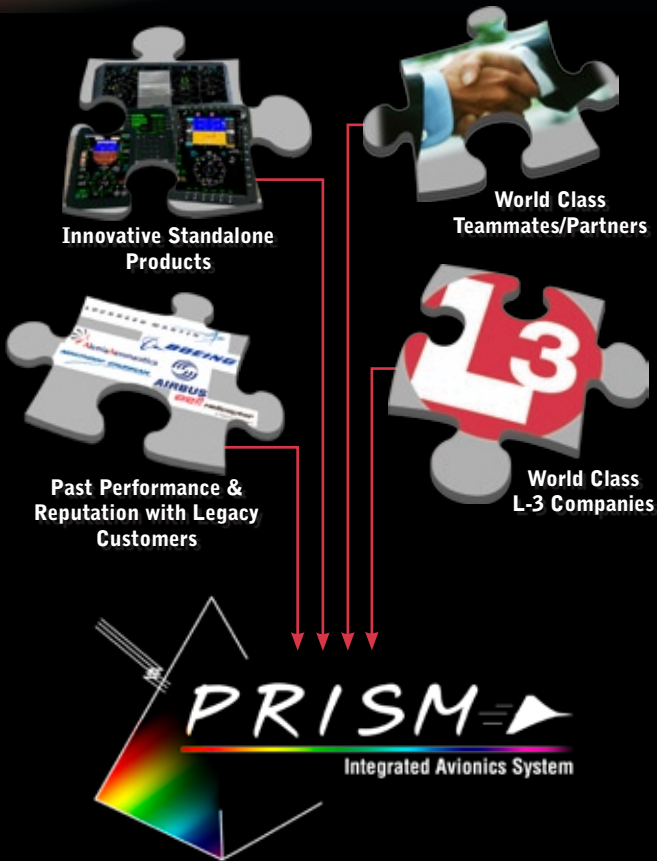
Tel: 770.752.7000

www.L-3Com.com/displays

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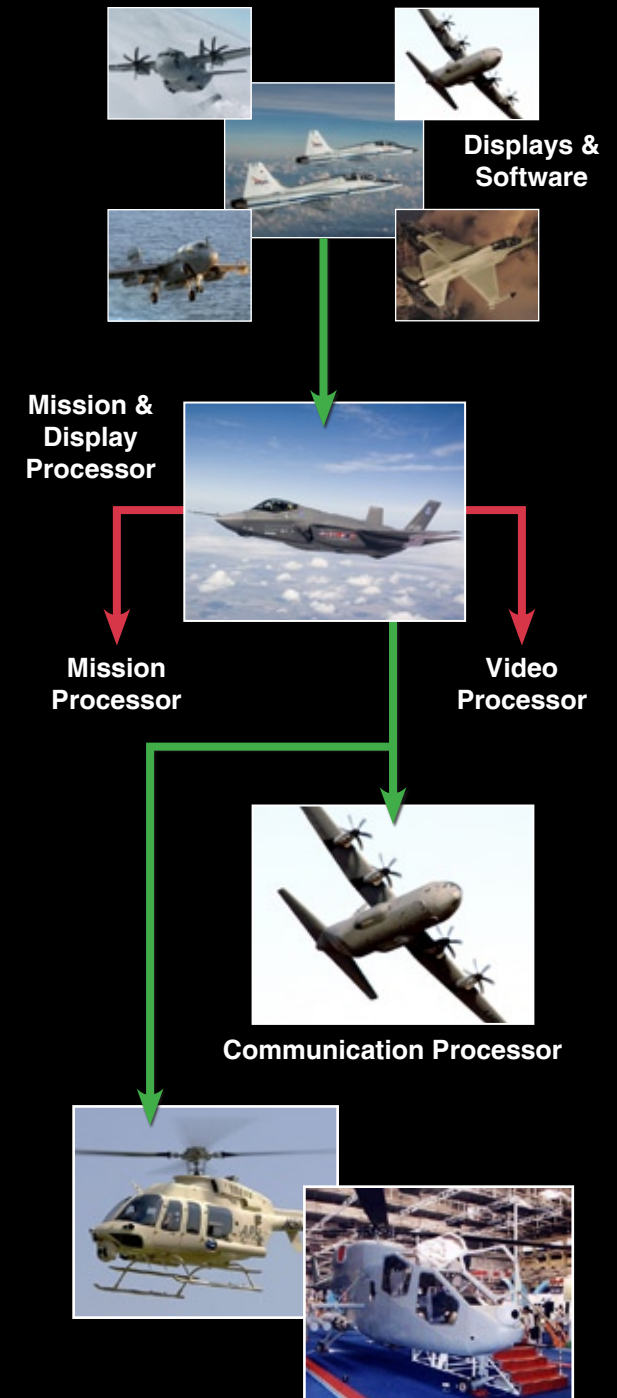
Prism Architecture



What is Prism?

- **Prism is a Robust State-of-the-Art Hardware Technology with an Open Software Architecture**
 - Complete Avionics System or a Standalone Processor
 - Scalable and Flexible to Meet Mission, Platform and Application Requirements
 - Embeds "Systems" as "Functions"
 - Information Assurance
- **Hardware**
 - High Performance Processing and Graphics
 - Fabric Switch Back Plane with High Bandwidth
 - Configurable for Redundancy
- **Software**
 - Common Operating System
 - » Commercial RTOS (Green Hills® and LynxWorks™)
 - » OpenGL® ES-SC Graphics
 - Common Core Software Modules
 - » Adaptable to Meet Specific Requirements
 - ARINC 653 Partitioned Environment
 - » Prime or Customer Developed Software Resides in Partition
 - Certifiable to DO-178B/MILS
 - » Level Based upon Partition Function

Application Roadmap

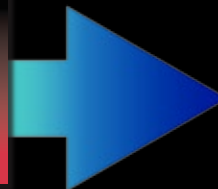


Prism Technology Roadmap

- System Processor
- Display Processor
- PCI Express Switched Fabric Backplane
- GPU and OpenGL® Driver
- Software Drivers & System Management
- Fibre Channel, Fire Wire, and Ethernet I/O
- Video and MPEG Processing
- Windowing on monolithic, NVIS Compliant IR Touch Screen, Fully Redundant 20"x8" Display System
- Trusted Computing Base & Secure/Non-Secure Separation



- Multiple Serial I/O Cores
- Multiple Analog & Video Formats Supported
- Multi-Format I/O CCA
- 1 ATR Chassis
- EAL 6 Separation Kernel & DIACAP



- Applications
- Chassis Size
- Cores
- Interfaces
- Processing



- Green Hills® INTEGRITY® Real-Time Operating System
- Partitioned Software Architecture
- OpenGL®
- I/O