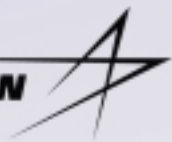


LOCKHEED MARTIN



AN/UYQ-70 E-2C



**AN/UYQ-70 E-2C****Advanced Control Indicator Set (ACIS)**

The E-2C version of the AN/UYQ-70, incorporating Q-70 high performance commercial off-the-shelf (COTS) modules, provides the foundation for the modernization of aircraft display systems. With its state-of-the-art open system architecture, the ACIS replaces legacy units while providing full color workstation capability to Airborne Electronic Warfare (AEW) operators. Like all Q-70 products, the ACIS is supported by the standard Q-70 suite of operating, development, and maintenance software and support products. The E-2C ACIS is a new Q-70 solution, as such it provides to the modern system developer the cost advantages of commercial technology, the flexibility of customized configurations, and the economy of scale of standardization.

Integrated Airborne Standard Mass Storage Device

- 9-GBbyte removable hard drive
- Additional standard drive bay available

Radar Scan Converter

- Interfaces to APS-145 airborne radar
- Supports up to 1600 x 1280 x 8-bit image size
- 10 nm to 1000 nm range selection
- Dual image windows promote rapid display format switching
- IFF and radar video processing in each window
- High speed pixel bus connection to the graphics system

Networked Interconnect

- 802.3 with internal transceivers

External Interfaces

- RS-232
- SCSI

Human - Machine Interface

- 20.1-inch Active Matrix Liquid Crystal Display (AMLCD) rugged flat panel display
- 1280 x 1024 resolution
- Q-70 rugged keyboard
- Ergonomic trackball
- Operator keypad
- Operator worksurface
- Retractable bullnose for easy operator ingress and egress

Power Systems

- Modular airborne power system providing transient and EMI protection
- Operates from 115V, 400 Hz MIL-STD-704 input power
- 300 millisecond power interruption protection
- Modular low voltage power converter assemblies

Packaging

- Replaces present E2C display assembly
- 130 pounds
- Architecture is supportive of cost-effective mechanical adaptation or repackaging to meet specific platform requirements
- Militarized I/O connectors interfaces

Environmental

- Fully compatible with inhabited tactical aircraft environments, including:
 - + 55o C to - 20o C operating temperature range
 - 100 percent condensing humidity
 - 6.6G rms, 20-2000 Hz random vibration
 - 20G operating, 40G crash safety shock
 - Salt atmosphere
 - Sand and dust

Reliability and Maintainability

- MTBF exceeds 1500 hours
- MTTR less than 25 minutes
- Supported by extensive built in test (BIT) and diagnostics

Program Support

- Engineering services are available to add additional new features and assist users with specifying configurations
- Operating and development software is available
- System engineering, application software development, and porting services are available

Technology Insertion

- Full management technology evaluation program for all users
- Open architecture provides ease of technology insertion
- SICV laboratory-supported testing of a technology before deployment

Integrated Logistics Support

- Full logistics management for support of all users
- Around-the-clock global fleet technical support center available
- Just-in-time support inventory
- All levels of logistics products provided (e.g., technical manuals, maintenance processes and procedures, ICDs)
- Training courses and materials for users

For more information, contact:

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