

**LOCKHEED MARTIN**



***AN/UYQ-70 Embedded Processor System***



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The Embedded Processor System (EPS) variant of AN/UYQ-70 (Q-70) provides users with a choice of modular air- or water-cooled shipboard enclosures or AEGIS-specific water-cooled versions. All use standard Q-70 modules and components to provide flexible commercial off-the-shelf (COTS)-based open systems tactical computing and display solutions. The EPS enclosure houses two independent subsystems. EPS includes Electro-Luminescent (EL) touch panels for each group of subsystems served by one of the two available internal power systems. The AEGIS-specific EPS provides CD ROM changers and bridge router FDDI/Ethernet system network management and, also, provides connectivity to the AEGIS Alternate Path Fiber Distributed Data Interface (APFDDI) combat network. The EPS is supported with the Q-70 standard suite of operating, development, and maintenance software and support products.

***Mass Storage Devices***

- Fixed or removable hard drives, capacity options of 2, 4, or 9 Gbytes
- Other Q-70 devices optional:
  - Erasable Optical disk (1.19 Gbytes)
  - CD-ROM (553 Mbytes)
  - CD-ROM changer
  - .25-inch QIC tape (525 Mbytes)
  - 3.5-inch floppy
  - 4 mm (2 Gbytes) DAT

***Networked Interconnect***

- IEEE AUI 802.3 with internal transceivers available both internal and external to the Q-70
- Alternate Path Fiber Distributed Data Interface (APFDDI) provides distributed network redundancy
- FDDI, (ATM)
- Optional stuffing tube for external interconnect
- Bay Network Router

***Human-Machine Interface***

- Power system control panel for each independent power system
- EL touch panel for each group of subsystems
- Various switches and indicators, one set per power system

***Packaging***

- Enclosure may be ordered as air- or water-cooled with 16 or 32 I/O plates
- Enclosure may be ordered with 40, 60, or 80 total VME card slots and various backpanel splits (example 10/10)
- VME card cages swing up to locked positions for easier access to rear located system components
- Internal cable management devices

***Environmental***

- Qualified to U.S. Navy shipboard environmental requirements, including temperature, humidity, shock, vibration, EMI, inclination, enclosure (drip-proof), noise, altitude and magnetic immunity
- Fully qualified and tested for shipboard use by OPTEVFOR

***Reliability and Maintainability***

- MTBF configuration dependent, typically 2400 hours
- MTTR less than 30 minutes
- Supported by extensive built-in-test (BIT) and diagnostics

***Program Support***

- Engineering services are available to add new features and assist users with specifying configurations
- Operating and development software is available
- System engineering and application software development are available
- User maintenance support tools, including manuals, diagnostics, and training 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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