

NORTHROP GRUMMAN*Electronic Systems***AN/ALQ-131(V)****Combat Success . . . Past, Present and Future**

*Currently operational
on A-10, F/RF-4, F-16
and C-130 aircraft in
the United States and
11 other countries*



The AN/ALQ-131(V) electronics countermeasures (ECM) pod is one of the most successful ECM systems ever built. Over 1,600 ALQ-131(V) pods have been fielded, successfully protecting aircrews and aircraft in every conflict since it became operational. In the 1990s alone, it flew over 15,000 successful combat missions including over 8,000 missions in Desert Storm. During Desert Storm, ALQ-131(V) field reliability exceeded specification by almost 500% with a mean time between failures (MTBF) in excess of 200 hours and an operational readiness rate of 95%. It was the standard NATO F-16 system used in the Balkans for the USAF and four Allied nations.

Designed to easily add new capabilities, the ALQ-131(V) is currently undergoing a Mid-Life Upgrade (MLU) to provide the combat-proven system with next-generation capabilities and performance. Improvements include a transmitter upgrade, advanced technique upgrade and improved sustainment and availability. MLU conversion kits will be available for installation in 2004.

Demonstrated Benefits

- Handles known, emerging and future terminal threats in a variety of complex threat environments.
- Full three-band, overlapping frequency coverage provides protection against lethal radar threats with the ability to stack transmitters for increased power in densest signal environments.
- High-power vacuum tube transmitters with controllable apertures produce high effective radiated power to successfully counter even the closest RF threats.
- Capable of producing simultaneous jamming techniques to counter multiple, simultaneous threats on a pulse-by-pulse basis.
- Integrated broadband receiver ensures rapid, tailored technique response to each threat in a dense threat environment with a "run silent" power management mode.
- Cockpit controllable with AN/ALQ-213 or C-9492 control units.

AN/ALQ-131(V)

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High Availability and User-Friendly Maintenance

- Extensive on-aircraft built-in test (BIT)
- PC-based, reduced size Intermediate-Level (I-Level) support capability available with 100% fault detection and isolation
- Over 200 hour MTBF and operational readiness rate of 95% achieved in Desert Storm
- Flight line reprogrammable
- Worldwide spares, repairs and software support ensure maximum supportability and availability
- Future USAF ALQ-131 commitment ensures affordable, long-term support for our international customers

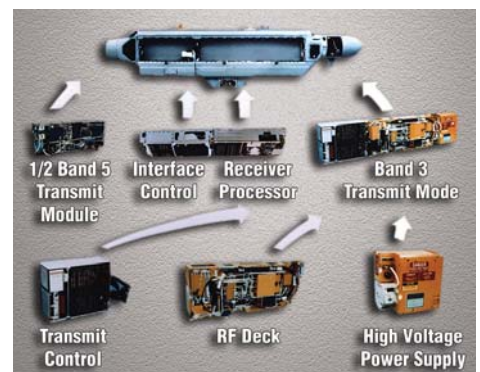
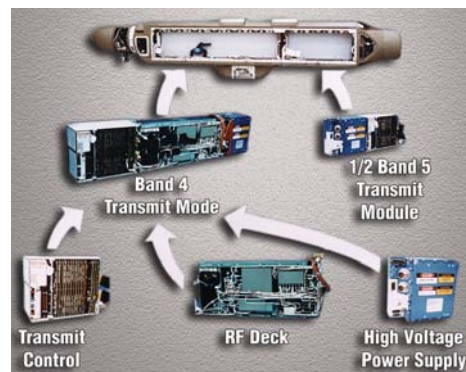
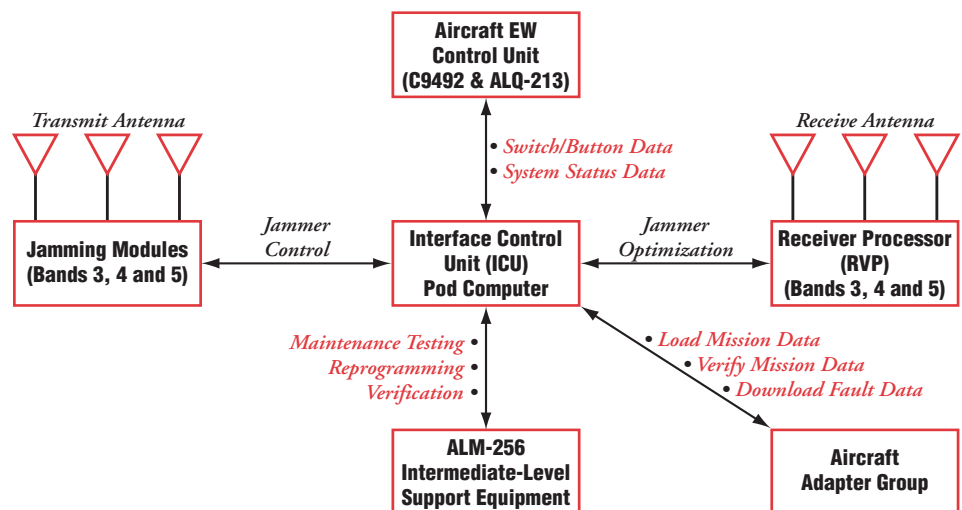
Ongoing Mid-Life Upgrade Program Provides Next-Generation Capabilities and Performance

- Militarized, commercial PC-based central processor
- Advanced MIL-STD-1553 communication in the pod
- Transmitter upgrade with added power steering capabilities that include dual minitubes which provide for graceful degradation
- Advanced technique capabilities for improved effectiveness against modern terminal threat radars
- Improved sustainment including reduced size I-Level support equipment with PC-based processors

State-of-the-Art Capabilities for Today and Tomorrow

- The ALQ-131 design incorporates a number of state-of-the-art capabilities including:
 - Modular hardware and software with true open system architecture
 - Closed cycle, high efficiency cooling system
 - Integrated receiver/jammer design with a flexible technique generator

A Combat Proven, Total System Solution



Configuration	Length (in/cm)	Width (in/cm)	Depth (in/cm)	Weight (lb/kg)	Power
Two Band Shallow	111/281.94	11.7/29.72	21/53.34	574/260.36	400 Hz 115 V 3 phase 5.6 kVA
Three Band Deep	111/281.94	11.7/29.72	25/63.5	674/305.72	400 Hz 115 V 3 phase 8.1 kVA

In Production and Available for International Sales

- Block II upgrades currently in production •
- Support equipment and logistics support in place •
- FMS or commercial purchase methods available for our international customers •

Specifications and features subject to change without notice.

For more information, please contact:

Northrop Grumman Corporation
 RF Electronic Warfare
 Director of RF EW Business Development
 600 Hicks Road
 Rolling Meadows, IL 60008-1098
 Phone: (847) 259-9600, ext. 4828
 Fax: (847) 870-5713
 e-mail: rf-ew@northropgrumman.com
 website: www.northropgrumman.com