



DEFENSIVE AIDS CONTROLLER (DAC)

FOR MOBILITY AND SPECIAL MISSION AIRCRAFT

Mobility and Special missions often require aircrafts to operate at low altitude and in contested environments making them targets of:

- Man-Portable Air Defense System (MANPADS) / Infrared-guided missiles
- Radar-guided threats

Terma's Defensive Aids Controller (DAC) serves as the intelligent core of an aircraft's Defensive Aids Suite (DAS), integrating multiple independent systems into one unified and automated survivability solution. Designed for complex platforms such as the C-130J, our controller delivers advanced protection and increased survivability through:

- Unified and automated Defensive Aids Suite (DAS) management
- Enabling 360-degree situational awareness
- Flexible & scalable system integration
- Robust processing power to host ASE and third-party applications
- Embedded training and mission support tools
- Compatibility with an array of Aircraft Survivability Equipment (ASE) sensors and countermeasures

Integration Reference List

Solution Provided

ACMDS, ALE-47	CounterMeasure Dispensing System
ALR-56M, ALR-68, ALR-69A, APR-39B(V)2, SPS-1000(V)5, CATS-100, SEER/SAGE	Radar Warning Receiver
AAQ-24, ELT/572, MIYSIS	Directed Infra-Red CounterMeasures
AAR-44, AAR-47, AAR-54, AAR-57, MILDs, PAWS-II, EL/M-2160	Missile Warning System - Passive & Active
ALTAS-2QB, AVR-2B	Laser Warning Receiver
ALQ-119/-184, ALQ-131, ALQ-162, EL/L-8222	Electronic Countermeasure Jammer
COMET, ALQ-144A	Infra-Red CounterMeasures



General technical overview

Processor	3X Quad Core XILINX (1200 MIPS)
Volatile memory	Min. 512 MiB (each processor)
Non-volatile memory	Min. 1024 MiB (each processor)
Operating System	Green Hills (each processor)
Power	28VDC, max 270W
Encryption key	Supported
Weight	Max 14.5 kg (32 lbs)
Dimensions	10.2 X 7.7 X 15.2 in
Mean Time Between Failure	15000 Hours
MIL-STD-1553B	9 ea.
Ethernet	7 ea. (4x10/100, 3x3 Gb)
Generic Input/Output Discretes	37 ea.
Weight On Wheels Dedicated Discretes	2 ea.
ARM Dedicated Discretes	1 ea.
Analog Audio Input	2 ea.
Analog Audio Output	3 ea.
Dispense Station Data Buses	4 ea.
EIA-485 Data Buses	5 ea.
Expansion Slot (for additional controller)	1 total



The **Programmable Interference Blanker Unit (PIBU)** provides prioritized blanking of aircraft RF transmitters and receivers to prevent mutual interference and ensure reliable system performance in complex RF environments.



Terma's Complete Protection Solution for Mobility & Special Mission Aircraft

Depending on the application, the DAC may integrate cockpit Multi-Function Display and Control Units as applicable or provide human interaction via Terma's **Advanced Threat Display** and Remote Control Panel.



The **Advanced Countermeasures Dispenser Suite** is typically controlled via the Defensive Aids Controller (DAC), which provides automatic decision support for the pilot in a threat environment, built-in training capability, and full EW suite control, if desired.

DEFENSIVE AIDS CONTROLLER (DAC) A GLOBAL PROTECTION SOLUTION FOR HIGH VALUE ASSETS

Terma's family of controllers is flown by NATO forces around the world.



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