



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

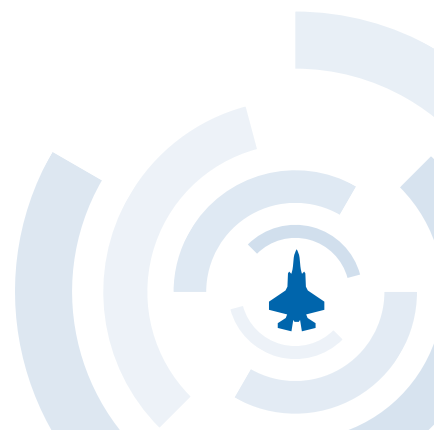
Terma's Defensive Aids Controller (DAC) serves as the intelligent core of an aircraft's Defensive Aids Suite (DAS), integrating multiple independent systems into one unified and automated survivability solution. Designed for complex platforms such as the C-130J, our controller delivers advanced protection 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	Up to 3 multi-core processing units HW supported encryption
FPGA	Up to 3 ea. ≥75000 logic cells
Volatile memory	Up to 3 ea. 512 Mib
Non-volatile memory	Up to 3 ea. 1 GiB Flash and 16 GiB eMMC
MIL-STD-1553B	Up to 9 ea. dual redundant
Ethernet	100/1000 Base-T
Discretes	57 ea.
Audio	2 ch. Analog in 2ch, Analog out
Power Consumption	28VDC. Max. 270W
Weight	12.5 kg max. (27.6 lbs)
Dimensions (l x w x h)	320x257x197.097 mm (12.598x10.118x7.76")



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.



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

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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