



ALQ-213A (V) DEFENSIVE AIDS CONTROLLER



Versatile defensive aids controller

Terma's ALQ-213A(V) Defensive Aids Controller (DAC) offers a versatile, independent solution for military Aircraft Survivability Equipment (ASE) suites. The DAC is available in both DK (non-ITAR) and US (ITAR) versions.

The ALQ-213A(V) DAC belongs to Terma's family of controllers, in service on 2,500+ aircraft, counting 25+ different platform types operated by more than 15 different countries around the globe.

With its modular architecture, the ALQ-213A(V) DAC is the ideal platform for easy integration of any ASE sensor or effector system, as well as aircraft core functions thanks to its many configurable interfaces and robust computing capability. Further, the architecture offers provisions for e.g. multi-CPU, built-in mass storage and/or Red/Black separation for multi-level security applications.

A Terma integrated ASE suite allows for selection of enhanced functions for optimization of performance through Automatic Threat Response / Decision Support algorithms and an extensive Embedded Training function – all fully user programmable.

Technical description

The ALQ-213A(V) DAC is designed for painless avionics bay installations, thanks to its 1-ATR standard mounting interface. The architecture comprises two compartments for fitting of up to 14 ea. standard 3U size electronic circuit cards. A built-in highly effective power supply module operates from standard 28 VDC aircraft power and distributes the required stable lower voltages for all fitted function cards.

Depending on the need, a range of modular expansion functions are readily available, including a Programmable Interference Blanking Unit for aircraft radio frequency interoperability, encrypted mass storage, and Digital Video interface.



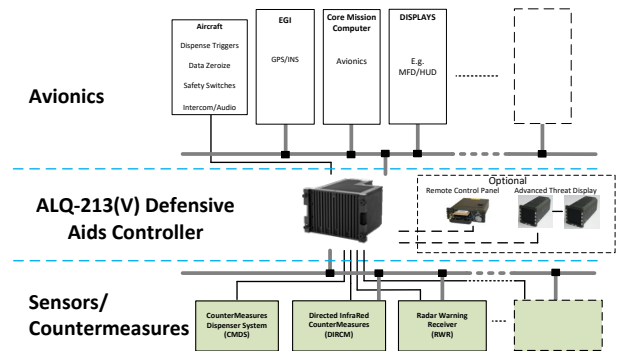
Typical application

The DAC typically integrates a number of ASE sensors and effectors via MIL-STD-1553B, Ethernet or serial interfaces in combination with discrete power control signals. 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.

Available sources for time, position and attitude data is normally centrally integrated by the DAC which in turn provides low latency data in any required format to the applicable systems and functions of the ASE.

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 2 ch. Analog out
Power Consumption	28VDC, Max. 270W
Weight	12.5 kg max. (27.6 lbs)
Dimensions (l x w x h)	320x257x197.097mm (12.598x10.118x7.76")



Alternatives within the Terma controller family



- Cockpit installation
- Alpha numerical display
- Power control / hard switches
- One-box controls, processor & interface solution



- Avionic bay installation
- Small / lightweight
- Versatile interfaces