

Total Integration of EW Self-Protection Systems on all Types of Aircraft

AN/ALQ-213A(V) Defensive Aids Controller

The Terma Defensive Aids Controller, AN/ALQ-213A(V) is an advanced version of the basic ALQ-213(V) EW Management System, which is used in hundreds of fighters, transport aircraft and helicopters world wide. This new version offers a number of advantages over the basic system such as:

- Modern, scalable, open architecture
- Increased processing power
- Additional memory data storage
- Increased number of interface possibilities
- Simpler integration with aircraft avionics
- Improved EMI/EMC performance
- Improved/simplified cockpit controls

Main Features

- Control and integration of all on-board EW subsystems
- Interfaces with aircraft avionics systems

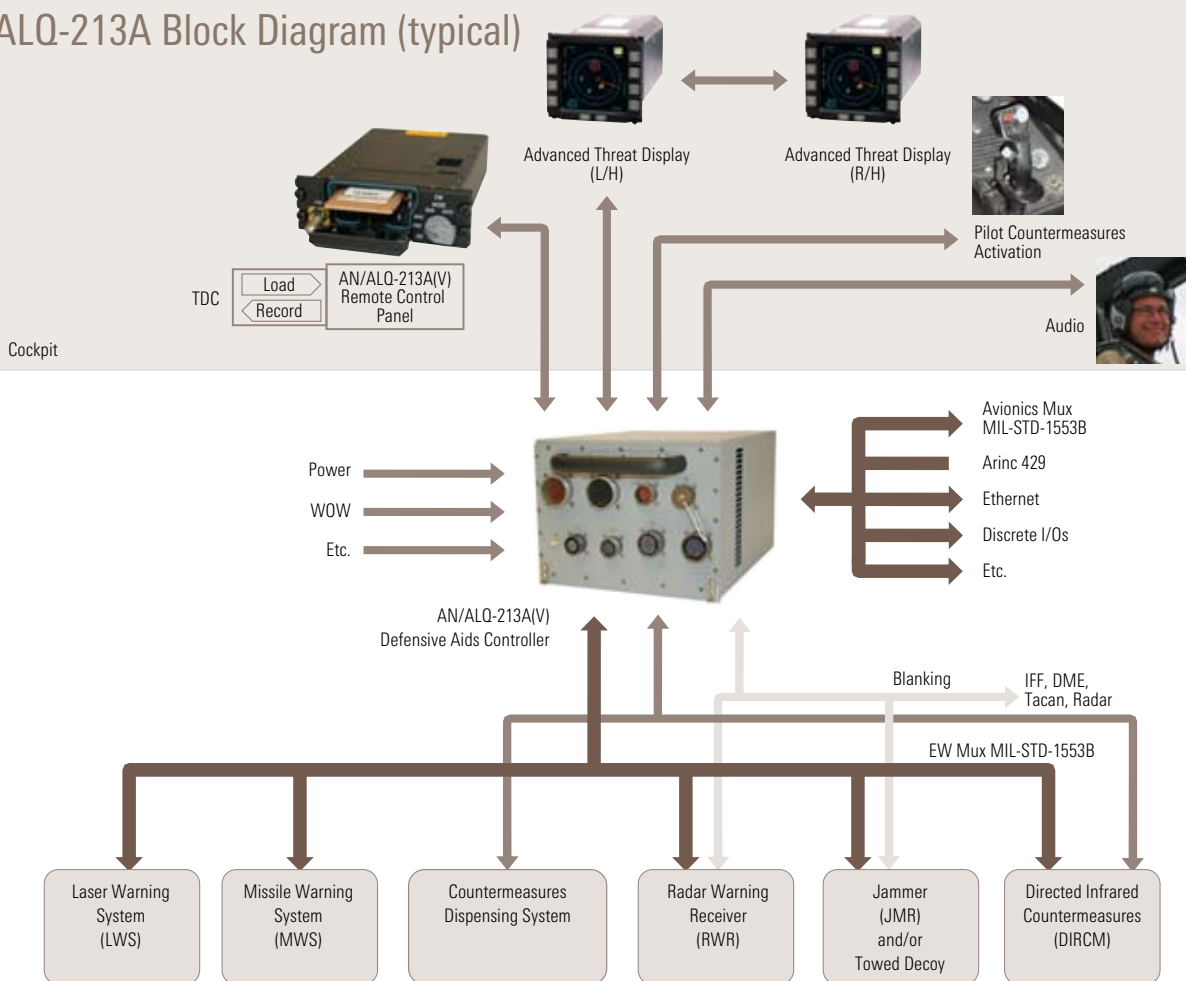
- Automatic "intelligent" activation of countermeasures in case of attack (semi-automatic and manual modes of operation available)
- Programmable Interference Blanker capability
- Countermeasures Signals Processor for correlation of sensor input data
- Mission data loading/unloading/recording through cockpit Remote Control Panel
- Full color Advanced Threat Display

Options

- Three-Dimensional Audio Warning for maximum Situational Awareness
- Active Noise Reduction for reduced crew fatigue and increased comfort

Within three main categories: transport aircraft, large and light helicopters, the system is typically configured to specific user requirements.

ALQ-213A Block Diagram (typical)



Total Integration of Aircraft Survivability Equipment on all Types of Aircraft

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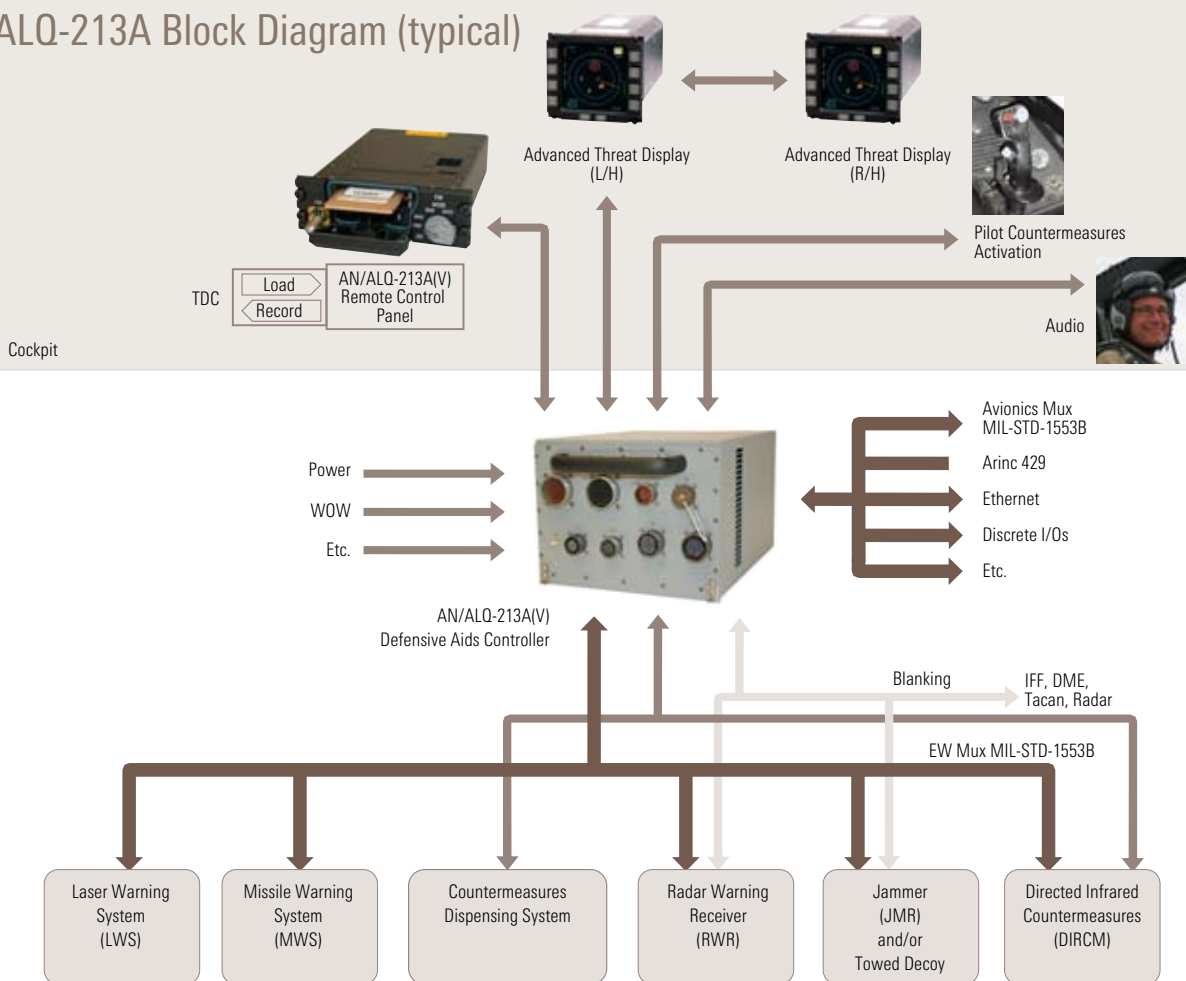
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AN/ALQ-213A(V) Components:

Leading Particulars - AN/ALQ-213A(V)

Equipment Form Factors and Weight

Unit		Width [mm] ([inch])	Height [mm] ([inch])	Depth [mm] ([inch])	Weight [kg] ([lbs])
	Defensive Aids Controller	257.050 (10.120)	193.500 (7.618)	320.500 (12.618)	12.0 (26.5)
	Remote Control Panel	146.050 (5.750)	47.625 (1.875)	165.100 (6.500)	0.95 (2.1)
	ATR Tray ¹⁾	264.795 (10.425)	35.560 (1.400)	384.886 (15.153)	1.3 (2.9)

Note 1) The DAC form factor is based on ARINC-404A, 1ATR short hold-down type C and requires a tray for installation.

Cooling Passive

Remote Control Panel, Panel-light and Indicators NVIS GREEN A per MIL-STD-3009

Interfaces

Interface Signal Characteristics	Qty	Spec.	Function
Serial Digital Data Bus			
Mux Bus	4	MIL-STD-1553B	BC/RT/MT
Auxiliary Data Bus	2	EIA-485	Programmable
Ethernet	2	10/100BASE-T, IEEE 2.3	Programmable
Special Serial Digital Data Bus			
Dispense Station Data Bus (ACMDS) Dispense Station Data Bus (ALE-47) TTD Data Bus	4	RS-232	Programmable
	4	EIA-485	Programmable
	1	EIA-422	9.6 kHz - full duplex
General Purpose Discrete I/Os			
Soft Programmable	43		User Configurable
Special Purpose Discrete I/Os			
Soft Programmable	14		User Configurable
Miscellaneous			
Analog Audio Out	2	up to 14.1 Vpp/150 Ω	
TTD Digital Video	1	TMDS, DVI 1.0	
Blanking I/Os			
Inputs	7		
Outputs	8		

Electrical Power

DAC		
Operating Voltage		28 VDC per MIL-STD-704A/D
Current Consumption Current Surge		max. 7.5 A / max. 30 A peak for 50 ms.
Power Dissipation		max. 165 W
RCP		
Power Dissipation		max. 15 W
Panelight, Voltage		0-5.0 VDC / 0-5.0 VAC / 0-28 VDC
Panelight, Current Consumption		max. 230 mA @ 5V / max. 60 mA @ 28V

Computer Characteristics

Freescale PowerPC 1.2 Ghz Processor
1 MB Cache
512 MB SDRAM
256 MB Non-volatile Flash



AN/ALQ-213A(V) Processor



Advanced Threat Display



Remote Control Panel, (RCP) with Tactical Data Cartridge

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