



ADU-208 AUTOMATIC DESTRUCT UNIT

Flight Termination System

L3Harris' ADU-208 Automatic Destruct Unit Flight Termination System is designed to provide a means to automatically terminate powered elements during inadvertent separation or launch vehicle breakup. The ADU-208 is intended for use on lower stages and is RCC-319 compliant for application on a wide variety of launch vehicles and missiles. Per RCC-319, the unit is single fault tolerant against inadvertent firing.

AUTOMATIC DESTRUCT UNIT (ADU)

Physical Characteristics

Volume	104 in ³
Dimensions	7.25" L x 3.7" W x 5.375" H
Weight	5.5 lb max
Mounting Attitude	Any
External Adjustments	None

Power Supply

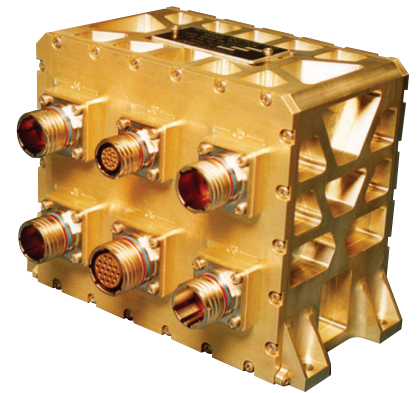
Supply Voltage	22-to-35 VDC
Current	105 mA max (output inactive) 15 A max (output active)
Power Supply Isolation	> 10 megohms from chassis

Telemetry Interfaces

Internal Power Status
Breakwire 1 Continuity Status
Breakwire 2 Continuity Status
Breakwire Armed
Breakwire Safed
FET A Off
FET B Off
External Power Status

Destruct Output Interface

Current Pulse	7.5 A min, 15 A max
Pulse Duration	100-to-200 ms
Leakage	50 µA max



KEY FEATURES

- > Automatically terminates powered elements during inadvertent separation events
- > RCC-319 compliant
- > Eight binary telemetries provide status monitoring during ground and flight operations
- > Operates with either vehicle power or power supplied from the ground support equipment (GSE)
- > A series of redundant driver circuits provides fault tolerance to ensure range safety

REDUNDANCY AND FAULT TOLERANCE ENSURE RANGE SAFETY

The ADU is designed to respond to arm/safe discrete commands from the GSE during launch operations and redundant safe commands from the airborne equipment prior to staging.

The ADU's eight binary telemetries monitor the status of the unit during ground and flight operations. The destruct circuit is comprised of a series of redundant driver circuits capable of triggering an electronic explosive device to ensure fault tolerance and range safety.



VERSATILE RELIABILITY

The ADU-208 provides circuitry to monitor for inadvertent stage separation or vehicle breakup. The unit is configured to operate with either vehicle power or power supplied from the GSE. The ADU-208 interfaces with a low-voltage initiator with 7.5 A min, 15 A max output and has a built-in power change-over switch from ground to battery power, requiring low standby power consumption. The unit is capable of providing built-in low-current resistance test telemetry to verify connectivity.

ADU-208 Automatic Destruct Unit

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