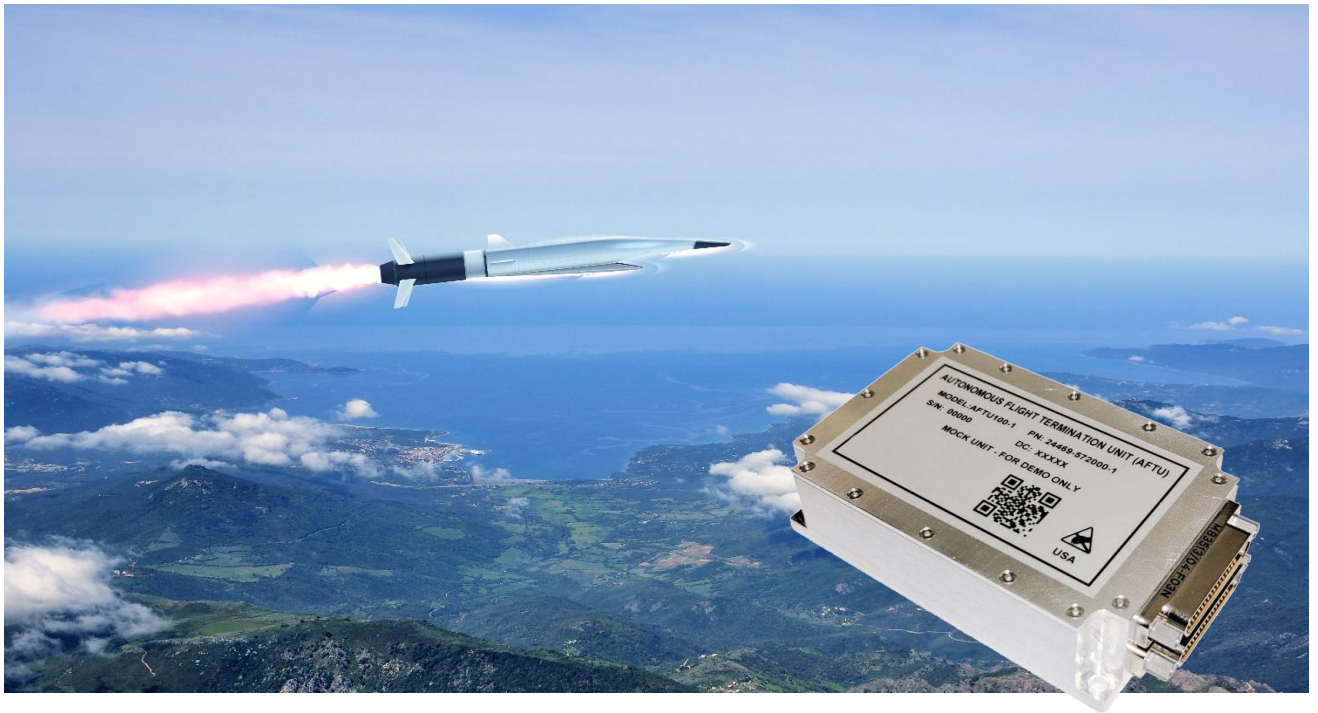
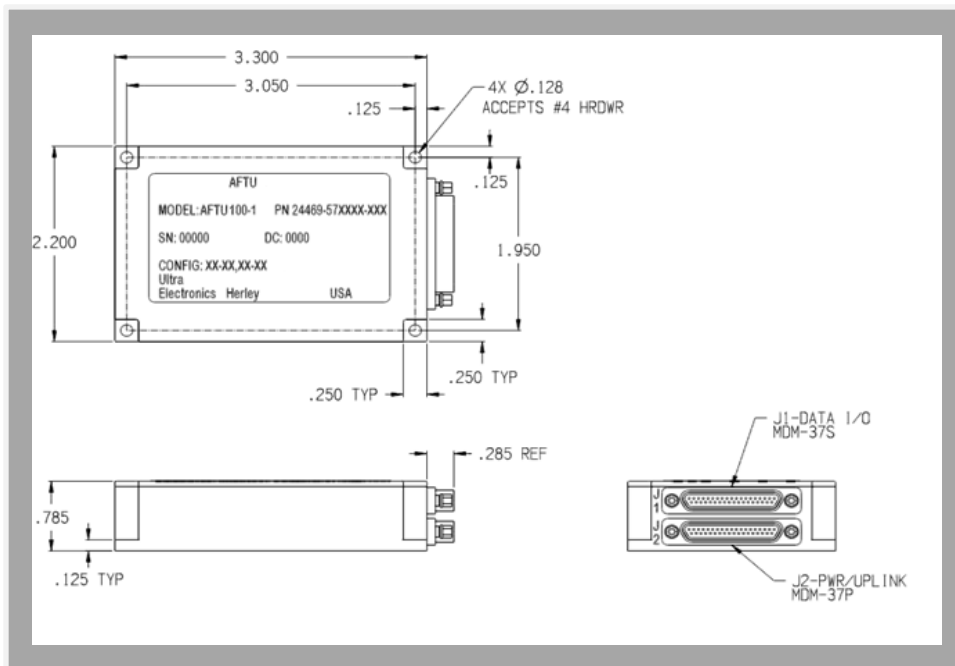


Autonomous Flight Termination Unit (AFTU)



The CAES Autonomous Flight Termination Unit (AFTU) is a fully configurable termination unit which employs the latest software, technologies, and manufacturing processes providing a high performance, highly reliable, long-life product. The AFTU is fully compliant to all applicable RCC 319-19 specifications, without exception. The AFTU has no single-point failure and is remotely accessible for configuration and status monitoring.

The CAES AFTU includes five customizable I/O banks with hardware or software cross-strapping providing maximum flexibility for every platform. Leveraging decades of qualified flight termination, instrumentation, and range safety experience, the CAES AFTU is an extremely low SWAP unit, capable of handling the harshest operational environments



Autonomous Flight Termination Unit (AFTU)

FEATURES:

- RCC319-19 Function and Design Compliant
 - Internal Temperature, Current, and Voltage Monitors
 - Remotely Accessible Configuration Interface (Read / Write)
 - No Single Point Failure Inducing Inadvertent TERMINATE
 - Customizable Interfaces and Mission
-

SWAP:

- 3.3" x 2.2" x 0.785" w/o connectors
 - 3.585" x 2.2" x 0.785" w/ connectors
 - Approx. 6 oz.
 - 3W @ 28VDC
-

DC CHARACTERISTICS/ PROTECTION:

- Input Voltage: +22 Vdc to +36 Vdc; ± 45 Vdc over voltage protected
 - Input Power: 3.5 W typical
 - Telemetry Outputs: ± 45 Vdc over voltage protected
-

ELECTRICAL:

- Five (5) available I/O banks.
 - Each bank can support
 - one (1) of the following:
 - w Two (2) 3.3V logic level devices
 - w Two (2) RS-232 devices
 - w One (1) RS-422 device
 - 10/100 Ethernet
-

CROSS STRAP:

- Each I/O bank allows the output from one device to be hardware or software cross-strapped
 - Total of 8 cross-strap channels are available.
 - Dedicated Cross-strap Monitor Channel
 - J1: Data/Power: MDM-37 Socket
 - I/O Banks
 - Power
 - Lift-Off Detect
 - Safe
 - Master ARM
 - P1: Cross-Strap: MDM-37 Pin
-

ENVIRONMENTS (Design):

- MIL-STD-810
 - EMI MIL-STD-461F
-

Autonomous Flight Termination Unit (AFTU)

(Model):

- Acceleration: 275 G
 - Random Vibration: 72.8 GRMS
 - Pyro Shock: 9500 G @ 10,000 Hz
 - Temperature, Standard Operating: -40C to +80C Ambient
-

PARTS MANAGEMENT:

- MIL or AEC parts selected wherever available
 - Tin Mitigated variant upon request
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