



# + Autonomous Flight Termination Unit (AFTU)

## Key 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

## Description

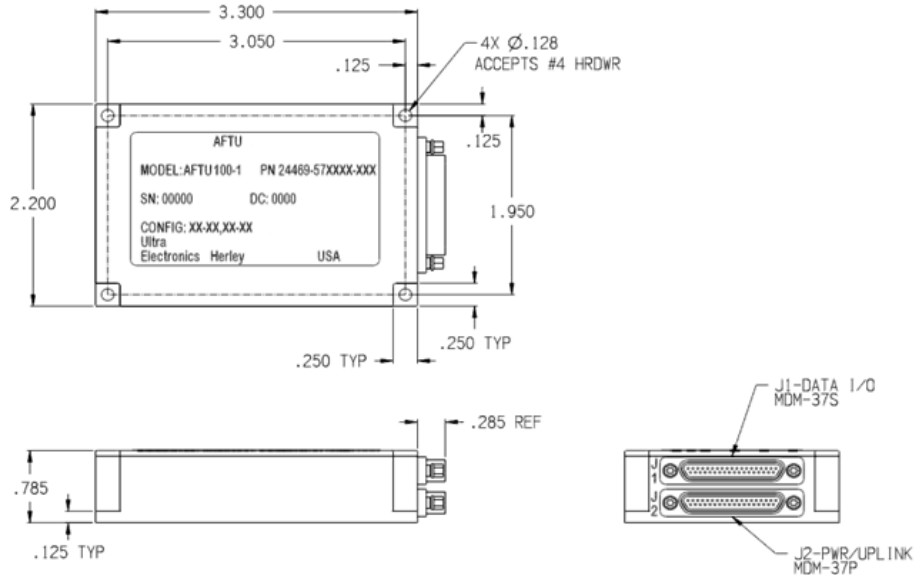
The Ultra Autonomous Flight Termination Unit (AFTU) is a fully configurable termination unit which employs the latest software, technologies, and manufacturing processes providing a high performance, highly reliable, long-life product. The AFTU is fully compliant to all applicable RCC 319-19 specifications,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

The Ultra 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 Ultra AFTU is an extremely low SWAP unit, capable of handling the harshest operational environments.





# AFTU Specifications



## 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



## Electrical

- Reverse polarity protection
- 18 - 36VDC
- Active High / Low TERMINATE
- Overvoltage Protected +/- 45VDC



## Interfaces

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

## DC Characteristics /

### Protection

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



## Environments (Design)

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

## Environments (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

Ultra reserves the right to vary these specifications without notice.

© 2022 Ultra Electronics Ltd. All rights reserved.  
1070.1-I&C-en-REV1022

**ULTRA** | Intelligence & Communications

[www.ultra.group](http://www.ultra.group) | [sales@ultra-us-gbs.com](mailto:sales@ultra-us-gbs.com)