

Comet - the safe way to stop a runaway plane!

Comet is a radio-linked remote-stop or flight termination system with digital, pyrotechnic, CAN-FD, serial, and Ethernet outputs.

Designed to ensure no single failure shall cause termination, Comet comes with dual redundant processing and redundant termination circuits.



➔ Many Output Options

Comet Air has two termination outputs which can be independently configured for positive-logic digital or pyrotechnic ignition function. Termination voting can happen internally or externally, and the output can optionally be latched and help-up for a short period of time.

Both Comet Air and Ground come with a dual Ethernet or dual CAN-FD telemetry links which can be used as a soft source of termination information and source of system diagnostics.

↔ Adaptable RF Link

A socketed radio solution allows Comet to support many popular bands from 400 MHz to 2.4 GHz and transmit power of up to 4 Watts. Licensed and unlicensed variants are available depending on the country of operation.

In the standard configuration, a single Air unit supports up to two Ground units in line-of-sight operation. Mesh and repeater options allow beyond-line-of-sight operation and range extension. Protocol extensions allow up to eight Ground units.

📶 Untethered Operations

The Comet Ground unit comes standard with an 8-hour battery, neck lanyard, daylight visible LEDs and a loud buzzer; allowing range safety officers to operate from any location.

Custom Software

An open-platform C++ SDK allows the Comet FTS to be configured to your exact needs.

Specifications

Input Voltage	18 to 30V (nominal) DO-160G 16.6 Cat B
Power	5W (nominal)
Weight	375g
Environmental (DO-160G Qualified)	-40 to 70°C (Operating) -5k to 25kft MSL Category B Temp. Variation Category A Op. Shock Category R Vibration

Connector J1: EN-4165, 20 Pin, Male
J2: 50 Ohm TNC

Terminate Current (Digital Option) 100mA Sustained
(200ms Holdup)

Terminate Energy (Pyrotechnic Option) 260mJ

Communications

Option 1
Dual 10/100 Ethernet
Single RS-232

Option 2
Single 10/100 Ethernet
Dual CAN-FD
Single RS-232

RF Performance

Band	TX Power (W)	Sensitivity (dBm)	Range (km)
400 MHz	2	-114	110
840 MHz	2	-113	50
866 MHz	1	-114	35
869 MHz	0.5	-112	20
900 MHz	1	-110	20
2.4 GHz	1	-112	10

Single Lane Termination Output

