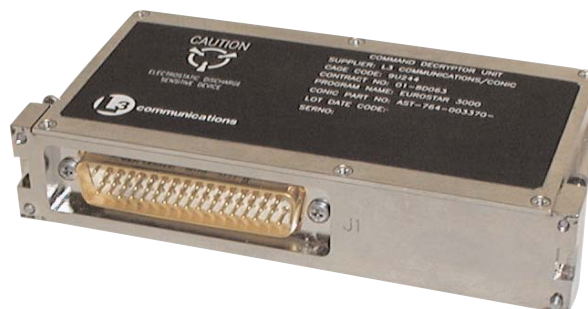


Spaceborne Telemetry

Caribou Decryption Unit

CDU-100

- Standalone unit
- Space qualified
- 1Mbps uplink
- 16 keys
- NSA approved



Telemetry-West has a long and rich heritage of securing space vehicle communications links. High-reliability space communications has been one of Telemetry-West's primary business thrusts since 1968 beginning with the Apollo space program.

The Caribou Decryption Unit (CDU-100) is an integrated decryptor unit providing security capabilities for satellite communications links. Telemetry-West has drawn on its vast experience developing space qualified products and embedding NSA endorsed cryptographic devices to design and manufacture the CDU-100.

The CDU-100 is used to secure uplink data in a single, small lightweight housing. The unit uses the Caribou Algorithm for data rates up to 1 Mbps, with 16 selectable keys. The unit uses the Caribou Algorithm to decrypt the uplink signal to the satellite. The CDU-100 has 64 bits of telemetry data that reports health and status. The unit is radiation hardened and designed for missions up to 15 years.

CDU-100 Specifications

Decryptor	Caribou Algorithm
Data Rates	125 bps to 1 Mbps
Size	.50" x 2.5" x 1.0"
Weight	.06 lbs (265 grams)
Power	.03 Watts
Input Voltage	+5 Volts
Surge	< 2 Amps for <300 msec
Operating Temperature	-24°C - +61°C
Vibration	19g rms
Radiation Hardening	100 Krads (outside chassis)
Tempest	NACSIM 5100A Compliant
EMI	Mil-STD-461C/D (Optional)

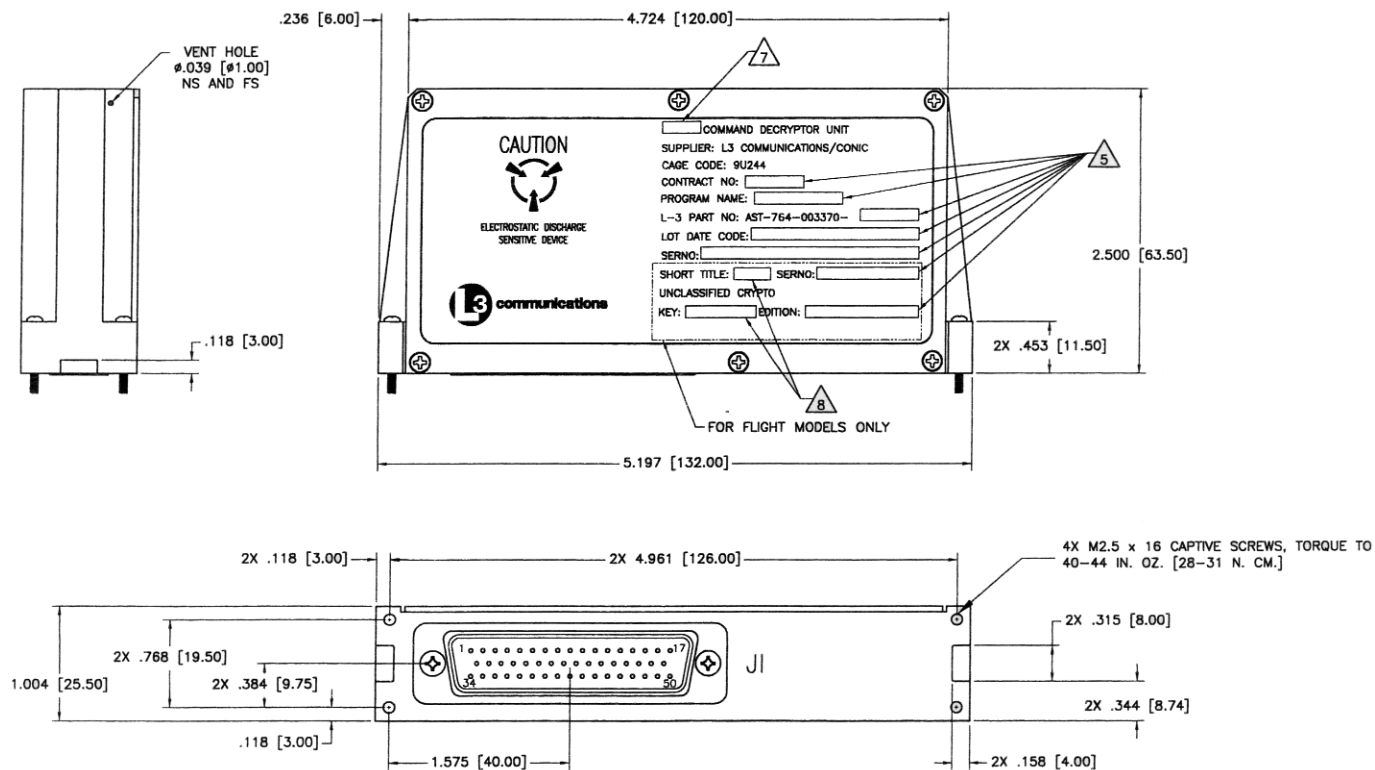


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Telemetry-West

Excellence You Can Measure

CDU-100 Caribou Decryption Unit



CDU-100 Mechanical Outline Drawing

U.S. Headquarters

9020 Balboa Avenue
San Diego, CA 92123-3507
858-694-7500 800-351-8483
Fax: 858-279-0693

www.L-3Com.com/tw



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Telemetry-West