



U-TXZ Caribou VLSI

*Command Link Decryptor for
Commercial Satellite Applications*

Specifications

Data Rate

1 bps to 20 Mbps

Operating Voltage

4.5 to 5.5 V DC

Power Consumption

35 mW/MHz (nominal)

Data Interface

CMOS Levels

Format

NRZ-L, NRZ-M

Processing

DESC-qualified CMOS Gate Array

Testing

MIL-M-38510/
MIL-STD-883 Level

Additional Testing

Group E and DPA Available

Temperature Range

-55 to +125° C

Technology

0.8-micron Double Level
Metal Bulk CMOS Gate Array

MTTF

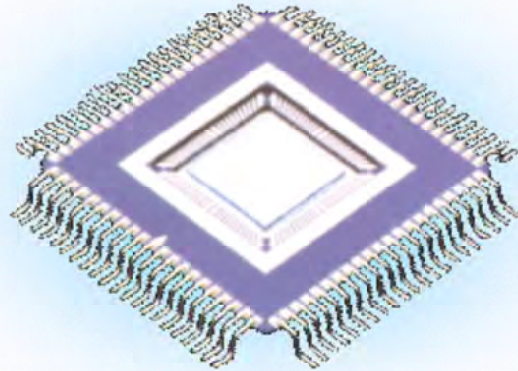
>10M hours per MIL-HDBK-217E

Package

84-Pin Ceramic Flat Pack

Part Number

0N638296



Pin-for-Pin Compatibility with Cardholder and Centurion

The U-TXZ VLSI microcircuit implements the Caribou algorithm for uplink protection of civil and U.S. commercial satellite systems. The component is compatible with the MYK-15 Caribou Ground Unit.

Features

- NTISSP No. 1 compliant.
- Command format compatibility with Cardholder and Centurion.
- Telemetry format compatibility with Cardholder and Centurion
- Continuous data mode format (128 bits)
- Off-the-shelf QML-V compatibility
- Two command authenticate formats—Ternary and Binary
- Maximum uplink rate of 20 Mbps (117,647 commands per second)
- Built-in self test (BIST)
- Meets QML Class V MIL requirements
- DESC-qualified CMOS gate array manufacturer
- Radiation hardened for space applications 1M Rad (Si). Total Dose: (>10 M functional)

Subject to change without notice.

359 Van Ness Way
Torrance, California 90501 USA
(310) 533-8100

www.safenet-inc.com

PRODUCT BRIEF