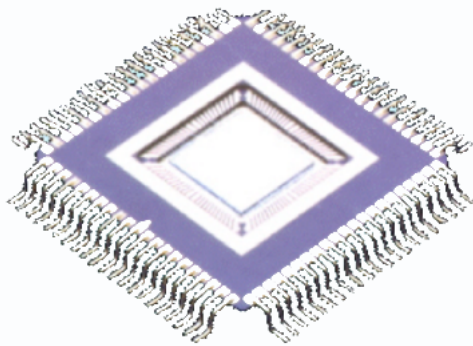




U-UJF Caribou VLSI

NSA-Certified Command Link Decryptor for Commercial Satellite Applications



The U-UJF VLSI microcircuit implements the Caribou algorithm for uplink protection of U.S. commercial satellite systems. The component is interoperable with the MYK-15A and KIV-7MC ground units.

Specifications

- Data Rate: 1bps 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 and NRZ-M
- 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: ON825382-1

Pin-for-Pin Compatibility with Cardholder and Centurion

Features of the U-UJF

Caribou VLSI include:

- CNSSP 12 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).

Subject to change without notice

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