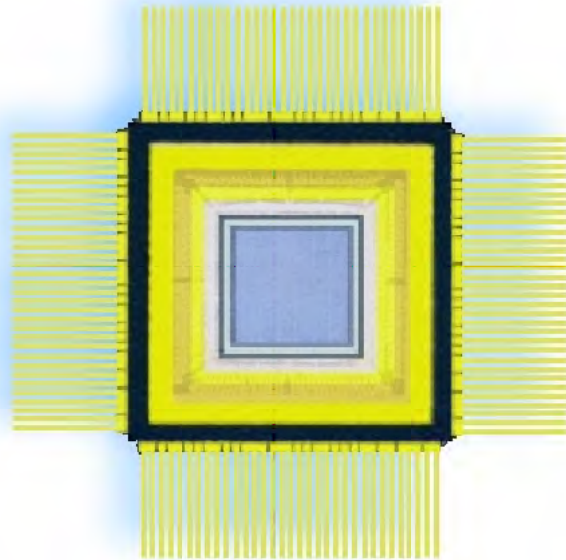


KGV-227

Pegasus VLSI Microcircuit



Specifications

Data Rate

1 bps to 100 Mbps

Operating Voltage

4.5 to 5.5 V DC

Power Consumption

40 mW/MHz (nominal)

Data Interface

I/O: TTL, CMOS

Modes

A and B

Processing

Desc-qualified JAN CMOS gate array

Testing

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

Additional Testing

Group E and DPA available

MTTF

> 10 M hours per MIL-HDBK-217E.

Technology

1.2 micron Triple Level Metal Bulk CMOS gate array

Package

132-pin ceramic flat pack

Other

Available in Class B (connoisseur coated)

Satellite Telemetry and Mission Data Encryptor; Command Link Encryptor

Features

- Cryptographically compatible with the KG-227 and KG-228 flight units, KI-17, and Pegasus Ground Units (MYK-17 and MYK-17B).
- Remote electronic keying (up to 64 keys can be indexed).
- Binary NRZ-L TTL format for PT and CT data, NRZ-M for CT data.
- Maximum data rate of 100 Mbps.
- Meets Level S requirements of MIL-M-38510 and MIL-STD-883.
- DESC-qualified JAN CMOS gate array manufacturer.
- Endorsed by NSA for Type I applications.
- Radiation hardened for space applications; 1M Rad (Si) Total Dose (>10M functional).
- Single-Event Upset (SEU) 1×10^{-10} errors/cell-day.
- Over-The-Air Rekey (OTAR) interface.

Subject to change without notice.



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PRODUCT BRIEF