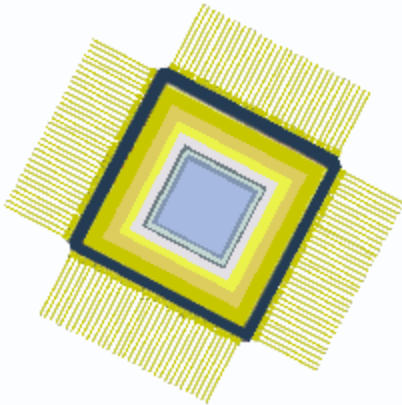


KGV-227 Pegasus VLSI



Satellite Telemetry and Mission
Data Encryptor

Command Link Encryptor

Specifications

- Data Rate
 - 1bps 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 (QMLV)
 - CMOS Gate Array
- Testing
 - MIL-M-38510/
MIL-STD-883 Level
- Additional Testing
 - Group E and DPA Available
- Technology
 - 1.2-micron Triple Level
Metal Bulk CMOS Gate
Array
- MTTF
 - >10M hours per
MIL-HDBK-217E
- Package
 - 132-Pin Ceramic Flat Pack
- Other
 - Available in Class B

Features

- Endorsed by NSA for Type 1 applications
- Cryptographically compatible with the KG-227 and KG-228 flight units, KI-17, and Pegasus Ground Units (MYK-17B and KIV-7MS)
- 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 1 applications
- Radiation hardened for space applications; 1M Rad (Si) Total Dose (>10M functional)
- Single-Event Upset (SEU) <1 x 10⁻¹⁰ errors/cell-day

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