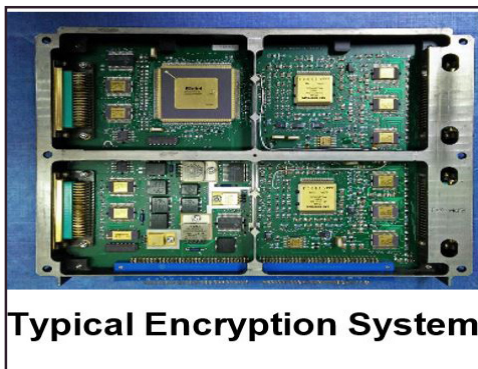


Data Security for remote sensing satellite

U R Rao Satellite Centre (URSC) of Indian Space Research Organisation (ISRO) has developed Data Security for remote sensing satellite. It is primarily AES based high frequency encryption system for payload data in single chip.



Typical Encryption System

Salient Features

- ✦ CCSDS compatible.
- ✦ Suitable for bulk data encryption for telemetry channels.
- ✦ Optimised for speed and area.

Major Specifications

- ✦ The architecture is built over AES algorithm.
- ✦ Designed for implementation in FPGA's.
- ✦ Single chain throughput of 512 Mbps for RTAX2000 FPGA.

Technology Transfer

URSC/ISRO offers to transfer this technology of Data Security for remote sensing satellite developed by URSC to industries in India with adequate experience and facilities. Industries interested in obtaining knowhow may write giving details of their present activities, infrastructure and facilities.

Technology Transfer & Industry Coordination Division (TTID),
Programme Planning and Evaluation Group (PPEG),

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