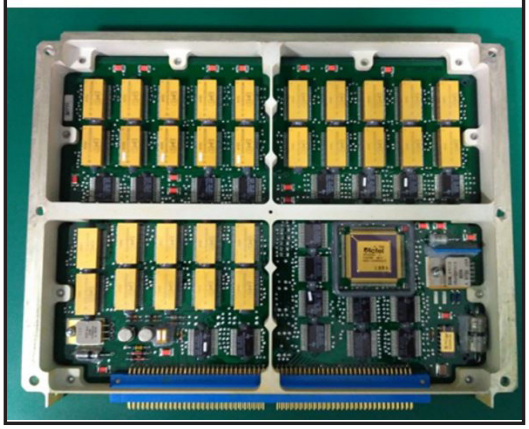
SDRAM based Solid State Recorder for space Applications

U R Rao Satellite Centre (URSC) of Indian Space Research Organisation (ISRO) has developed SDRAM based Solid State Recorder.

Solid State Recorder is required to enhance data collection by store and retrieve operation based on the mission conceptualization. SDRAM type of memory devices provide good memory density and speed of operation.

SDRAM BASED 48 Gbit Card



Salient Features

- 300 Gb SSR System having slice redundancy
- Peak power consumption 35 W.
- Data rate of 1.2 Gb/s for recording and retreival at a rate of 320 Mb/sec.

Major Specifications

- System is capable of accepting command and transmitting monitoring information through 1553B interface.
- Data are organized as files for storage and retrieval.
- Basic Module is 2 Gb SDRAM.
- Basic Memory Board can be populated from 16Gb to 48Gb. These Memory areas are EDAC protected and six memory boards can be accommodated in single package.
- Near real time download facility is available in case SSR system has to be used as rate convertor.
- Various file modifier functions are available to ease mission operations.

Technology Transfer

URSC/ISRO offers to transfer this technology SDRAM based Solid State Recorder 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.

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