

SOLID STATE RECORDER

Space Applications Centre of Indian Space Research Organisation (ISRO) has designed and developed a Solid-State Recorder (SSR) based on non-volatile flash memory for applications requiring high-speed large volume data recording. These SSRs make ideal data capture media for airborne imaging sensors as well as other applications requiring high data ingest rate real-time capacity including ground testing and archival of data. The architecture has been specially optimized for imaging sensor applications and mass, volume and power parameters.

Application

- Imaging data recording
- High-speed sensor data acquisition
- Airborne applications
- Ground-testing and data archival

INDIAN SPACE RESEARCH ORGANISTION



Technical Specifications	
Sustained input data-rate	1.0 Giga Baud
Storage capacity	4 Tb
Temperature range	-20°C to +75°C
Storage medium	NAND Flash
Mass	<0.75 Kg
Power	<8 watts
Data retrieval	USB 2.0
Input interface	SERDES/LVDS Serial/ LVDS Parallel / RS422 serial and RS232 Serial
Operational voltage	5-12 Volts (non-isolated) 9-36/18-72 Volts (isolated)
Package size	220mm*150 mm*25mm
Operator interface	Custom utility (Windows)

Features

- Real-time recording
- ONFI Flash device-based storage
- Scalable and flexible design
- Optimized for mass and power
- Host-based file management

Technology Transfer

SAC/ISRO offers to transfer this technology of the Solid State Recorder developed by SAC to industries in India with adequate experience and facilities. Enterprises interested in obtaining knowhow may register and submit their proposal to IN-SPACe, Ahmedabad at www.inspace.gov.in

For more details, Contact:

Technology Transfer & Industry Interface Division (TTID), PPEG Space Applications Centre (SAC), ISRO Ambawadi Vistar, Jodhpur Tekra, Ahmedabad - 380 015

Email: ttid@sac.isro.gov.in

https://www.sac.gov.in/SAC Industry Portal



