

TECHNOLOGIES TRANSFERRED FROM ISRO

TT / 07 / SAC

Satellite Based Interactive IP Network (SIIP)

(Technology Transferred to M/s Astra Microwave Pvt. Ltd,
M/s Avantel Softech Pvt Ltd & M/s Infinium (India) Pvt. Ltd.)

“Satellite based Interactive IP Network (SIIP)” was developed by ISRO for EDUSAT program. The network is two way, low cost and most suitable for small size broadcasting network requirements.

The network consists of :

- Satellite with minimum 3 MHz bandwidth
- The Network Control Station in the Teaching End
- Unlimited Receive Only Terminals (ROT) intended to receive the programs
- A group of Satellite Interactive Terminals (SIT) for two way Audio / Video interaction.

The Network Control Station / HUB can be functionally divided into,

- Forward Link Subsystem (FLSS) which generates all the data (traffic + signalling) to be up-linked to the satellite
- Return Link Subsystem (RLSS) which processes the data received from the Satellite Interactive Terminals.

APPLICATIONS

- Non interactive e-Learning for Receive only Terminals
- Interactive e-Learning for Satellite Interactive Terminal
- Commercial IP DVB-S Broadcast
- Corporate Training Programs
- Disaster Management Service
- Satellite Based News Gathering

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