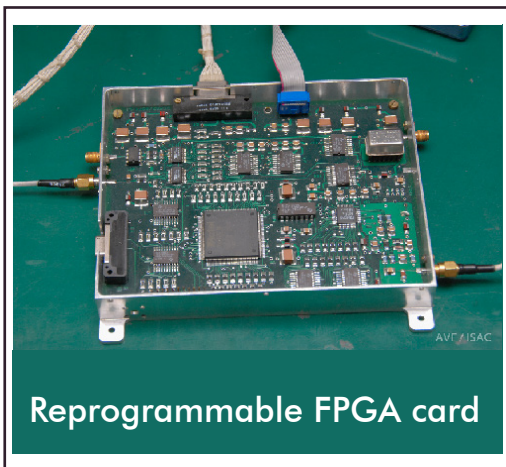


## S-band Digital Coherent Receiver

U R Rao Satellite Centre (URSC) of Indian Space Research Organisation (ISRO) has developed a S-band Digital Coherent Receiver for application in remote sensing satellites.



Reprogrammable FPGA card

### Salient Features

Modularity, flexibility and re-configurability, with digital signal processing implementation for the IF processing, carrier tracking and demodulation in FPGA.

### Major Specifications

✦ Input Frequency	: 2054.195 MHz
✦ Modulation Scheme	: PCM/PSK/PM
✦ Frequency translation ratio	: 240/221
✦ Carrier Acq signal range	: -50 dBm to -120 dBm
✦ Acquisition Modes	: Aided
✦ Carrier tracking Range	: +/-125 KHz
✦ Command Data Rate	: 4Kbps
✦ Ranging	: Sequential tone ranging
✦ Size	: 200x150x90 mm <sup>3</sup>
✦ Mass	: 2.5 kg
✦ Power	: 7.0 W secondary

## Technology Transfer

URSC/ISRO offers to transfer this technology of S-band Digital Coherent Receiver 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),

📍 U R Rao Satellite Centre (URSC), ISRO, HAL Airport Road,  
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🌐 <https://www.ursc.gov.in/industry/index.jsp>