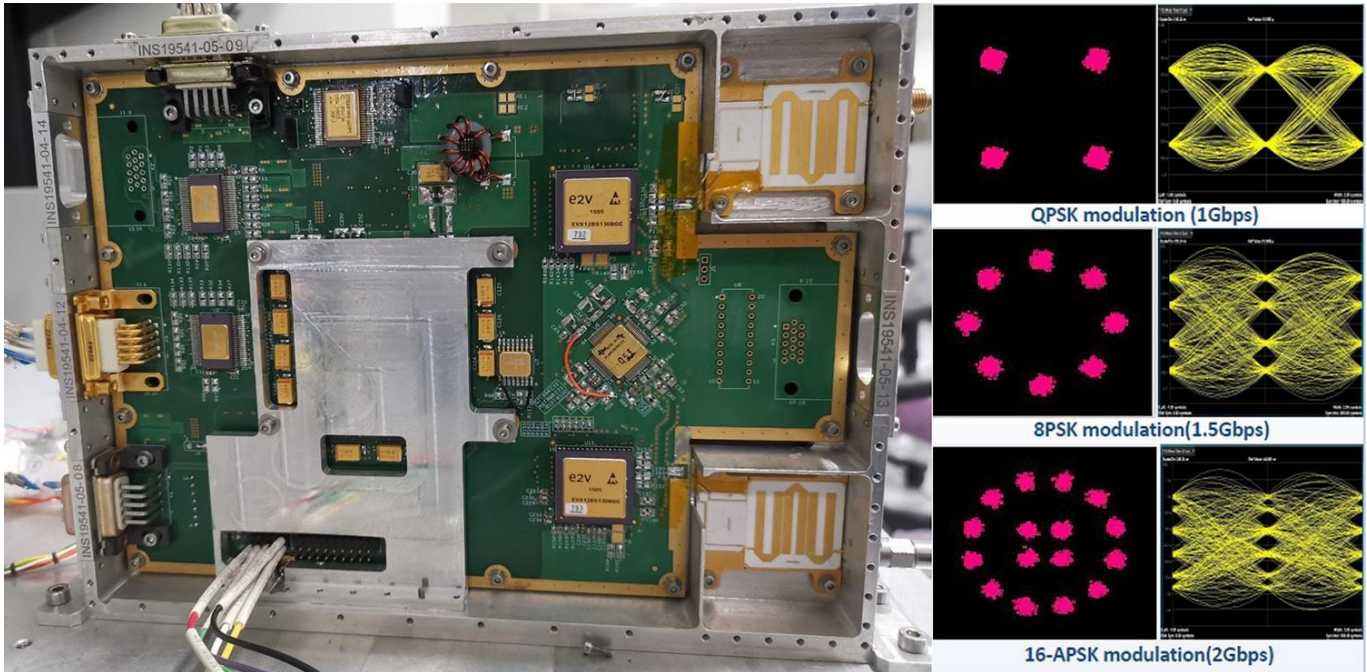


Advanced High Data Rate Modulator



Advance High Data Rate Modulators

Salient Features:

- Complete Digital implementation for GEO-optical payload
- Telecommand configurable modulation schemes
- 16-APSK modulation: 2Gbps/ 675MHz BW
- 8-PSK modulation: 1.5 Gbps/ 675MHz BW
- QPSK modulation: 1 Gbps/ 675MHz BW
- Root raised cosine filter with $\alpha=0.35$
- Two 1.575Gbps SERDES interface for data acquisition, Virtex-5 FPGA, Wide band clock synthesizer, High speed DACs
- DAC and RF Gain flatness response compensation in FPGA
- Two DAC synchronization for external IQ modulator
- Temperature cycling completed in -10°C to 60°C

Technology Transfer from ISRO

ISRO is willing to offer the knowhow of this technology to suitable entrepreneurs / industries in India. Capable manufacturing industries interested in acquiring this knowhow may write with details of their present activities, requirements and plans for implementation, infrastructure and technical expertise available with them, their own market assessment, if any, and plans for diversification to the address given below: