

**Brief of Development of V-band based Inter-satellite Link
communication module for Small Satellites offering data rate upto 1.5
Gbps**

As a component of Challenge 2, it is proposed to develop a RF based ('V' band) Inter-Satellite Link module for small satellites in LEO to communicate with other LEO satellites and GEO satellite as part of the TDRS system. The module should be able to easily integrate into LEO satellites. A compatible receiving system has to be integrated into the GEO satellite. The data rate for this system is proposed to be upto 15.Gbps.