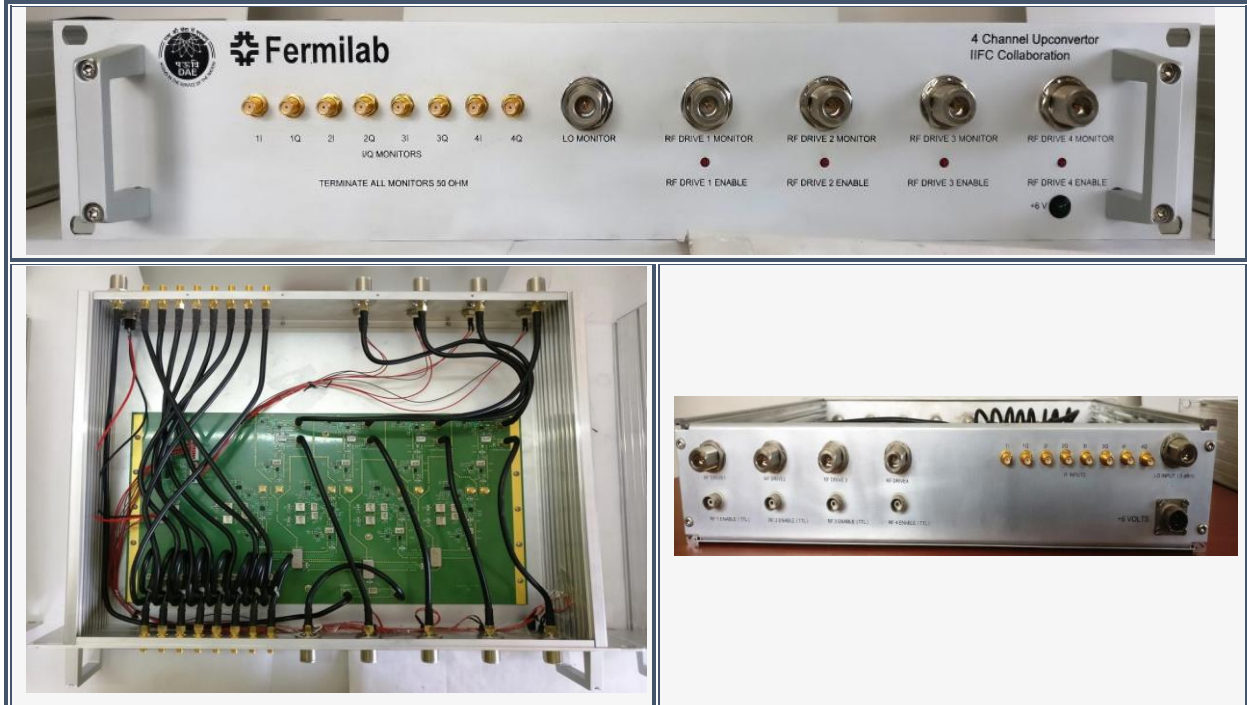




Table 4 - 4 CHANNELS FREQUENCY UP CONVERTER



This unit has a single four layer HYBRID PCB enclosed in 2U/3U 19" temperature controlled chassis. PCB material includes ROGERS RO4350B and FR4. The receiver is a four channel board which converts the incoming IF signal of 20MHz to RF signals with the help of incoming LO signal. All the four channels are identical and the specifications of one channel are as below:

- IF input IQ: 20 MHz, -2dBm max
- LO input: 182.5MHz, 345MHz and 670MHz @ 0 dBm
- LO monitor: -20dBm
- RF output: 162.5MHz, 325MHz and 650MHz, Max +10dBm
- RF monitor output: -7 dBm max
- Gain in the path of LO: 22.6dB
- The board also contains RF, LO and IF low pass, SSB mixer, band pass filters, RF amplifiers, Attenuators and provision for monitoring signals at various levels

THIS HAS BEEN DEVELOPED FOR BARC, MUMBAI FOR IIFC COLLABORATION WITH FERMILABS, AS REQUIRED IN ACCELERATOR CONTROL APPLICATION.