



Third Laureate Research & Development

- ◆ **Project Title:** Design and of Develop Digital Television Set Top Boxes for Satellite, Terrestrial and Cable Reception
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Abstract:

At the beginning of the digital satellite broadcasting, IRIB Jahad Research Center (2000) and FaraAfrand Co. (2005) decided to provide this system technical knowledge in Iran and design and develop two grades of professional Digital Integrated Receiver Decoder and home use Set Top Boxes for MPEG2 compression.

Manufacturing and installation of 1000 DVB-S receivers in transmitter sites of Iran and two other neighbor countries are undergone and designing of DVB-T and DVB-C is done along with designing of MPEG4 STBs. Any IRD consists of Front End, Demux, Descrambler, Decoder and Back End blocks.

We use only licensed sources in this project to have control over Real Time, Multi Task OS and software to decode MPEG, BISS, etc. Design of modular ASI and SDI ports provide a device that could not be hacked in critical events.