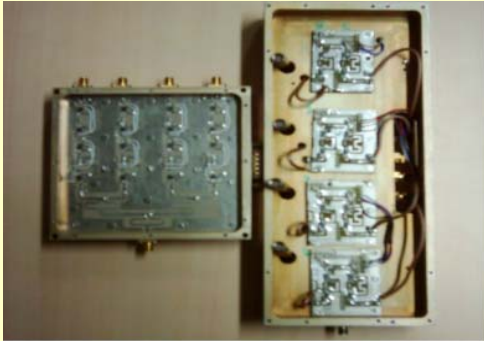


Consultancy Projects

On Going:

1. Wireless Sensor Localization

M/s Honeywell Technology Solutions Lab, Bangalore



The localization is done by using two sets of RF phased array front-end modules. The major responsibilities include the designing of the phased array antennas with can radiate a pencil beam of a very narrow beam width, a two bit phase shifter with control modules and the power dividers. The simulation was done using ADS 2002C and fabricated on a glass epoxy substrate. The modules were tested for performance using Network Analyzer.

2. RF Propagation Measurements

M/s Motorola, Bangalore



A mobile RF drive test measurement cart carrying the measuring equipment along with antennas and amplifiers is used for carrying out the measurement. The building losses due to different kinds of building materials and path loss are measured using the measurement system in certain selected villages. The data is then used for building up a seamless wireless connectivity for rural parts

3.Simulation of Physical and MAC layer of IEEE 802.11g

M/s Converge Labs

Title	: MATLAB Simulation of IEEE 802.11g PHY and MAC Layer
Description	: Transmitter Modules of ERP-DSSS, ERP-CCK, ERP-PBCC, ERP-OFDM and DSSS-OFDM have been designed using MATLAB
Status	: Completed