

Space Design Execution Center (SDEC)



Services Provided:

- PCB and high-speed PCB design
- Troubleshooting and testing assembled PCB
- Providing PCB repair using our high-quality repair stations
- Executing prototype PCB for verifying new design before final PCB version
- Providing full PCB assembly with high quantity and high precision
- Soldering and desoldering different kinds of components

Facilities Available:

- High power rating power supply
- Digital oscilloscope
- Microcontroller precision programmer
- Weller full set repair station
- BGA rework station
- High performance computers for Altium PCB design software

Samples from our Projects / Products:

- SAR OBC FPGA high speed board
- CanSat
- EgSACube-3
- Space Keys Educational Satellite Platform



Part of our Facilities / Services:

Digital circuit design

SDEC executes various circuit designs such as:

- FPGA and microcontroller circuit design
- High speed ADC and DAC circuit design



PCB design

The PCB design process creates footprints and 3D model for electronic components, placement and routing to define electrical connectivity and generation of required manufacturing documents for the designed circuit board.

Soldering and Assembly

Assembly of Through-Hole and SMT components with all types of footprints like BGA, LGA, QFP, TSSOP, SOIC ..etc.



Initial Testing

Performs an initial test (electrical connectivity and basic function of the board) on the designed circuit board using NI equipment.

Electronic Board inspection

Defines rigorous inspection and test procedures. It is capable of ensuring the quality of the final designed electronic board using power microscopes and NI equipment.



And many others... Contact us to know more about our Services.