

Jyoti Electronics



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Simulation Software

1. **CST:** - Computer Simulation Technology®

This is a full wave 3D EM Simulation tool with the following modules:

- a. **CST MICROWAVE STUDIO® (CST MWS):** the leading edge tool for the fast and accurate simulation of high frequency devices. Application areas include Microwaves & RF, EDA/Electronics, and EMC/EMI.
- b. **CST EM STUDIO® (CST EMS):** for the design & analysis of static and low frequency EM applications such as motors, sensors, actuators, transformers, and shielding effects.
- c. **CST PARTICLE STUDIO® (CST PS):** a highly specialized product for the fully consistent simulation of free moving charged particles. Applications include electron guns, cathode ray tubes, magnetrons and wake fields.
- d. **CST CABLE STUDIO™ (CST CS):** for signal integrity and EMC/EMI analysis of cable harnesses.
- e. **CST PCB STUDIO™ (CST PCBS):** for the simulation of Signal and power integrity and EMC/EMI on printed circuit boards.
- f. **CST MPHYSICS STUDIO™ (CST MPS):** for thermal and mechanical stress analysis.
- g. **CST DESIGN STUDIO™ (CST DS):** a versatile tool that facilitates 3D EM/circuit co-simulation and synthesis from CST, Germany
<http://www.cst.com/>

Navigation Hardware & Software

IP Solutions:

RF NAVIGATION CONSTELLATION SIMULATOR, GPS/GALILEO NAVIGATION SOFTWARE RECEIVER, GPS/GALILEO RECEIVER PROFESSIONAL SERIES for GPS, Galileo, GLONAS, QZSS, SBAS & IRNSS systems.

<http://www.ip-solutions.jp/>

RF & MW components Hardware

1. High Power RF Components:

Waveguide Components Filter-Standard Filters for Ka-band earth station, Customized components for 1 to 40 GHz, Customized Diplexer and multiplexers, Switching and Combining Systems, Antenna Systems & Components etc. from Switzerland.

2. Wide Band Telemetry receivers, Airborne & Ground RF sub systems:

Telemetry systems including transmitter, receiver, phase control, etc.

3. Microwave Tuning Element:

High Q Trimmer Capacitor, Air plate Trimmer, Sapphire Trimmers, Air tubular trimmer, MIL spec microwave tuning elements and varactor diodes.

4. All types of Antennas:

All type communication antennas, Earth station antenna, Receivers antenna, log periodic antenna, horn antenna, wideband antenna, yagi uda antenna, broadside/ endfire antennas and antenna systems.

5. Microwave Waveguide Components & Subsystems:

0.01–50GHz. Detector, Limiters, Comb generators, PIN Switches, MIC Subassemblies, Multipliers, Transceiver, and Ferrite Isolators etc.

Amplifier, Isolators, Attenuators, Combiner & Divider, Coupler, Duplexer, Triplexes, Filter, SAW Device, VCO, VCXO, TCXO, PLL Synthesizer, RF Switch, UP/Down - Converter Module, Termination & Dummy Load, Fiber Optic Transceiver, Repeater, Low Noise Block Converter, Connectors etc.

6. EMI Shielding Product:

Gaskets, Cable Shielding, Faraday Cages & Tents, Honeycomb Vent Panels, Finger strips, Shielded Windows / LCD, Flatshield.

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