

# *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/>

### 2. **μwave Wizard Mician:**

This is an excellent software used for fast and accurate design and optimization of waveguide and antenna Components of regular shape. This is based on Mode matching technique and results in fast and accurate simulation. Users have reported the complex filters are realized without any tuning by using this software. This is from **MiCIAN** Germany.

<http://www.mician.com/>

### 3. **ATK Mission Research & Technical Services:-**

Magic is an electromagnetic particle-in-cell code, i.e. a finite-difference, time-domain code for physics processes.

The LSP Suite is a 3-D electromagnetic particle-in-cell (PIC) code designed for large scale plasma simulations.

[www.mrcwdc.com/](http://www.mrcwdc.com/)

## Navigation Hardware & Software

### IfEN GmbH:

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

<http://www.ifen.com>

## 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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