Wireless InSite provides RF engineers with the tools to design wireless links, optimize antenna coverage, and assess key channel and signal characteristics. Applications range from military defense to commercial communications.

Turn to Remcom for electromagnetic propagation expertise and tools that improve productivity and efficiency. With each new release, Wireless InSite performs faster and handles ever more challenging computations.

Wireless InSite is site-specific radio propagation software for the analysis and design of wireless systems for communication, networking, sensors and numerous other applications. It provides efficient and accurate predictions of propagation and channel characteristics in complex urban, indoor, rural and mixed path environments, and includes high-fidelity and real time options.

Wireless InSite has the ability to model propagation loss throughout a city. Antenna patterns can be imported and displayed as well as the dominant paths between a transmitter and receiver pair.

Modeling of the propagation loss over an irregular terrain using Moving Window Finite Difference Time Domain.

Visit [www.remcom.com/wireless-insite](http://www.remcom.com/wireless-insite) for a detailed feature list, system requirements and licensing information.
Estimate and display data throughput for LTE or WiMAX using basic channel characteristics and strongest received signal from identified base stations.

Realistic antenna radiation and GPU acceleration greatly enhance the usability of the high-fidelity MWFDTD model.

Calculate and display throughput along a route through an urban area.

Addition of ground reflections in line-of-sight increases fidelity of Wireless InSite Real Time.

Key Features and Outputs

- Propagation from 200 MHz to 100 GHz
- Library of common antenna patterns
- Library of common building and terrain materials
- Import XFdtd® far zone patterns
- Import terrain data from DTED and DEM
- Import city data from DXF and shapefiles
- Several models support foliage effects
- Overlay output on maps and aerial photos
- Communication channel analysis tool and throughput toolbox for LTE and WiMAX
- Multi-processor, multi-threading and GPU acceleration
- Received power and path loss
- Support for receiver grids, routes or points
- Propagation path displays
- Electric field magnitude and phase
- Power delay profile
- Complex impulse response
- Delay spread
- Time and Direction-of-arrival
- Electric field vs. time and frequency
- Carrier/interferer ratio
- Strongest base to mobile
- Animated movies of fields vs. time
- Animated movies of ray paths vs. time

New in Release 2.6

- New X3D Ray Model with Multi-Threading and XStream® GPU Acceleration
- Moving Window FDTD (MWFDTD) high-fidelity model now with XStream GPU and complex antennas
- Ground bounce effects added to Wireless InSite Real Time
- New data throughput toolbox for WiMAX and LTE
- Exact Path correction in X3D provides speed of SBR but geometric accuracy of image theory
- Atmospheric absorption in X3D extends to 100GHz
- New post-processing of multiple transmitter results

The Remcom Difference

Customer Focused
Remcom is devoted to listening to our customers and understanding their needs, building requested features directly into the software with each new release. And since we’ve been providing EM expertise and solutions since simulation software became a reality, you can be confident that many years of experience have gone into the design and functionality of the products we create and the way we support them.

Personal Attention
Our reputation for providing excellent and accessible technical support is a result of the talent we recruit and our willingness to put our best people in touch with customers in need. When you call Remcom for support or even just for advice, you speak directly with our most respected engineers.

Remcom Discussion Forum:
Remcom’s Discussion Forum allows you to engage with other EM Simulation professionals and Remcom’s own experts. Go to www.remcom.biz/forum to view discussions as a guest, or join the community to participate and post your own comments. Registration is fast and free!

Remcom has been leading the EM market with innovative simulation and wireless propagation tools for 15 years. In addition to our flagship product, XFdtd, we offer a suite of innovative software and services, accessible and responsive support provided by a staff of experts, and comprehensive training. Our family of products includes:

**XF:** 3D EM simulation software package that provides engineers with powerful and innovative tools for modeling and EM software simulation.

**XStream:** GPU acceleration using NVIDIA’s CUDA architecture dramatically speeds numerical computations.

**XGtd:** A high frequency GTD/UTD based package for the design and analysis of antenna systems on complex objects such as vehicles and aircraft.

**Wireless InSite:** A radio propagation analysis package for analyzing the impact of the physical environment on the performance of wireless communication systems.

**VariPose:** A geometric modeling package for the manipulation and refining of high-resolution human mesh models for the medical and biomedical markets.

**Rotman Lens Designer:** A tool for the design, synthesis, and analysis of Rotman Lenses.

Visit [www.remcom.com](http://www.remcom.com) for more information.

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