

Design More, Faster.

VirAntenn™ is a computer-aided design (CAD) software tool used to compute radiation and scattering from arbitrary structures. With it, you can predict the performance of antennas and the radar cross-section of targets in both military and civilian applications.

Rapid, accurate, and cost-effective antenna design

Proven accuracy, reliability, and effectiveness.

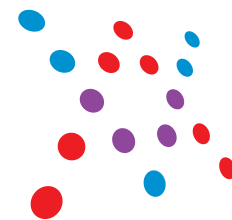
VirAntenn™ was developed under contracts with the U.S. Navy and the Missile Defense Agency, tested by prime contractors, and validated against measured radiation and scattering data.

Reduced time-to-market, lowered costs, & improved quality.

For the given accuracy, the computational engine of VirAntenn™ is 3x faster than that of any other comparable product, reducing both time-to-market and the cost of development. What's more, VirAntenn™ can compute as many as 28 million unknowns on a single PC, and the system supports CAD import/export in 15 standard formats.

Low or no upfront investment.

VirAntenn™ uses standard CAD I/O so there's no need to invest valuable resources in a proprietary system. Further, you can take advantage of the pay-per-use option, which allows you to access VirAntenn™ on a secure cloud with no investment (see the rate card for additional details).



VirAntenn™
Accelerated Antenna Design Software



- Boeing 737 with two blade antennas readied for co-site analysis



- Virtual EM's 64-core 512GB Ganymede system available to Cloud customers



For more information, contact Virtual EM, Inc., at 734-222-4558 or sales@virtualem.com.



VirAntennTM

Accelerated Antenna Design Software

- Robust and versatile finite element-boundary integral (FE-BI) engine
- Algorithmic acceleration through fast multipole method (FMM) and fast fourier transform (FFT)
- Hardware acceleration through graphics processing units (GPUs) and multi-core central processing units (CPUs)
- Printed and arbitrary 3-D geometries with material variations
- 3-D CAD interface
- Computation of both VSWR and radiation properties for single radiators and S-parameters for multiple antennas for co-site analysis, or for RF circuits
- Radar cross-section (RCS) modeling of arbitrary 3-D targets

Free Trial

Learn what the U.S. Navy already knows:

For a limited time, download a 90-day fully-functional trial copy of VirAntennTM for free at www.virantenn.com/trial.

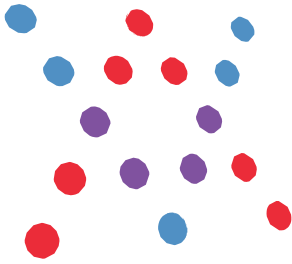
ITAR Restricted Product: Users must be U.S. Persons or must have ITAR license.



Founded in 2002, Virtual EM is a privately held R&D house with a mission to develop disruptive technologies for defense and civilian markets. With R&D funding from government and commercial sources, Virtual EM has developed prototypes ranging from software for electromagnetic modeling to hardware for wireless sensor networks. Virtual EM strives to create a nurturing and rewarding environment for its employees and maintains close relationships with its industry and academic partners. Virtual EM's business model calls for licensing or spinning off its mature technologies in partnership with OEMs or outside investors, respectively. VirAntennTM is Virtual EM's first commercial product, and the company has recently signed a comprehensive licensing agreement with an OEM to commercialize its embedded wireless technologies.



For more information, contact Virtual EM, Inc., at 734-222-4558 or sales@virtualem.com.



VirAntenn

Accelerated Antenna Design Software

RATE CARD

(Effective January 1, 2020)

1

\$10,000 single node license

- Lifetime updates & support for the engine
- Per user or PC
- Additional nodes are \$5,000.00 each up to 7 nodes

2

\$50,000 site license

- Lifetime updates & support for the engine
- Unlimited users or PCs
- Includes clusters (unlimited nodes)

3

\$50/hr pay-per-use

- Lifetime updates & support for the engine
- Secure cloud account

Contact Virtual EM Inc. to request a 90-day trial at
734-846-2550 or **sales@virtualem.com**

(Rates renew on January 1st of each year and effective for one year)