



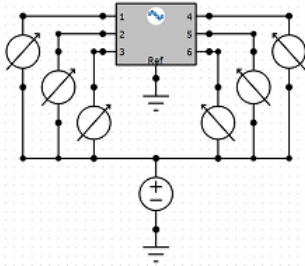
掃碼關注

XFDTD 是基於時域有限差分法的泛用三維高頻電磁模擬軟體，常用於各種天線設計，生物電磁分析，EMC/EMI 分析，先進材料研究，靜電放電分析等多樣化的應用，經過近 30 年的發展，是成熟高效的模擬軟體。

REMCOM 於 2021 年十二月 2 推出了新版的 XFDTD 7.10 這個重大更新，添加了電路編輯器等重要功能，並對前版本進行除錯，提升軟體品質與效能。

新版本支援 Linux RHEL7.5 同時移除了對 Windows 7 和 Windows 8 的支援，請用戶注意！

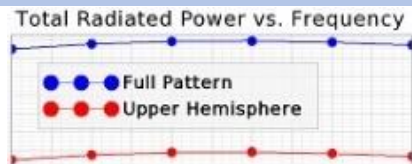
## Schematic Editor



新版的 XFDTD 7.10 增加了新的電路設計模擬工具，自帶頻域模擬分析功能，用戶可以在設計完成後同時進行匹配電路或饋電回路電路的特性分析，然後進一步和 FDTD 模擬結果結合匹配，透過後處理進一步瞭解這些電路對穩態模擬結果的影響。

- Schematic Editor : XFDTD 7.9.10 新增的電路編輯器，可設計匹配/饋電電路並分析其特性。
- 支援在電路中添加常見的器件並導入 Snp 文檔或整合現存的 XFDTD 模擬輸出在電路裡。
- 支援切換不同的電路器件運作模式或切換 FDTD 模擬結果代表的運作模式。
- 支援透過後處理的方式將電路與模擬結果結合，進一步的觀察電路對系統的影響。

## Plot Far Zone Statistics



7.9.10 版的 XFDTD 支援 Plot Far Zone Statistics 這個 macro，使用者可以透過代理索取，這個 macro 可以用來繪圖並列顯示多個不同頻點的輸出資料，便於使用者分析比較模擬輸出。

## Supported CAD Files

XF 7.10.0 更新了多個協力廠商的資料庫，擴充了對 CAD 文檔的支援:

- ACIS (. sat/. sab): 2021 R31.
- ProE/Creo (. prt/. asm): version 8.
- CATIA v5/v6 (. CATProduct/. CATPart): version 6 R2021.
- Inventor (. ipt/. iam): V2022.

## IEC/IEEE Standards

XFtd 7.10.0 通過測試驗證，可以相容以下的 IEEE 以及 IEC 國際標準。

- IEC/IEEE 62704-1 specific absorption rate (SAR).
- IEC/IEEE 63195-2 incident power density.

## Additional Capabilities

在這個版本還有額外 30 種以上的效能，腳本，操作性等相關改善:

- Added ability to save CEO tuner states and goals.
- Application preferences store default line thickness and data indicator size for newly created plots.
- Smith chart markers can display frequency only.
- Improved performance when selecting many parts.
- Improved performance when opening right-click menu when many parts are selected.
- Improved performance when selecting shortcut targets.
- Included part count in a tool tip for assemblies.
- CEO Efficiency goal displays a tool tip explaining why no bands are available.
- Added ability to monitor when non-linear project elements are simulated and warns when used in a Fourier transform.
- Import and Export script dialogs save window sizes.
- Batch file provided to run FDTD solver from command line on Windows platform.
- CAD import detects assembly information in part name and provides an option to regenerate hierarchy.
- STEP files import a better representation of shell-based surfaces that imports as a single part.
- Spice netlist reader allows some non-standard files without a header or end lines.
- Removed inaccurate xfsolver instability message when nonlinear netlist components fail to converge to a solution.
- Fixed bug causing part's material shortcut to not update properly.
- Fixed a bug causing the staircase mesh's cpu-side memory usage in XStream runs to be underestimated in the simulation memory estimate.
- Fixed a bug causing XACT cpu-side memory usage to be underestimated in the simulation

memory estimate.

- Fixed crash when importing some STEP files on Linux.
- Fixed phase shift of discrete frequency results.
- Fixed tool tip visibility on Linux platforms to ensure visible text regardless of theme.
- Fixed crash in both volume and SAR sensors when playing field animation and editing scale bar.
- Fixed crash when meshing near-field sensor.
- Fixed crash when defining CEO goal without a response matrix.
- Fixed bug in coordinate system when orienting directions.
- Delete key can delete selected edges.
- Changed the Crashpad\_handler.exe executable name to RemcomQAService.exe
- Fixed keyboard focus when first entering sketcher.
- [Scripting API] Fixed Gaussian and Gaussian derivative scripting documentation to give a correct waveform center time.
- [Scripting API] Added interface for accessing suppressed attribute of the grid

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