

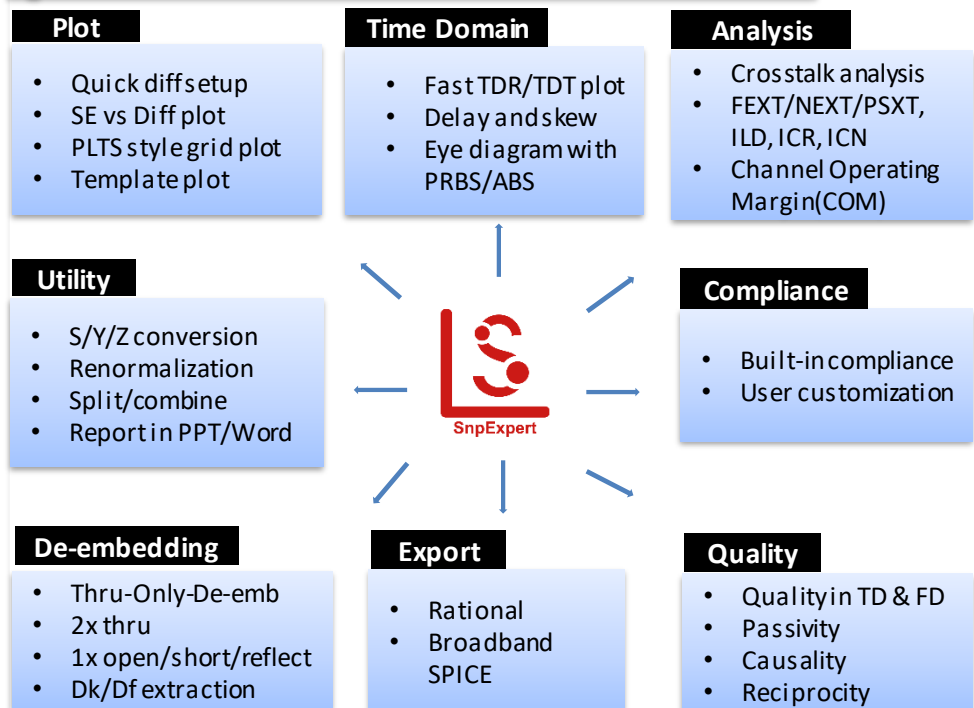


Quick S-parameter Exploration

Highlights

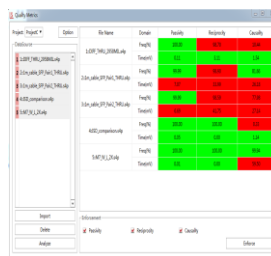
- 1 SnpNext provides a quick way to explore S-parameters for SI engineers to understand the electrical characteristics of interconnects, connectors, packages, and systems.
- 2 SnpNext offers comprehensive plotting functions in frequency and time domains.
- 3 Crosstalk analysis is made easier with quick victim and aggressor setup and built-in PSXT, ILD, ICR and ICN. COM analysis is also supported.
- 4 Built-in compliance for various high-speed standards allows quick compliance check.
- 5 Thru-Only De-embedding (TOD) enables accurate test fixture removal with 2x thru and 1x open/short/reflect. It has been verified with IEEE P370.
- 6 SnpNext provides an accurate way to perform dielectric constant (Dk) and loss tangent (Df) extraction over a wide range of laminate materials.
- 7 S-parameter quality such as passivity, causality and reciprocity can be quickly checked and corrected.

What can SnpNext do?



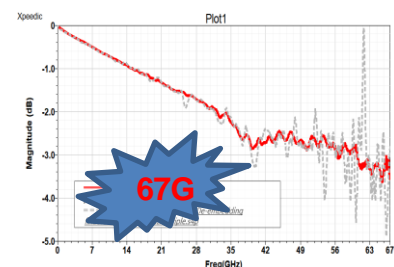
S-Parameter Quality

- S-parameter quality in terms of passivity, causality, reciprocity, and stability can be shown graphically.
- Reciprocity, passivity and causality check both in frequency domain and time domain.
- Enforce quality to generate new S-Parameters.



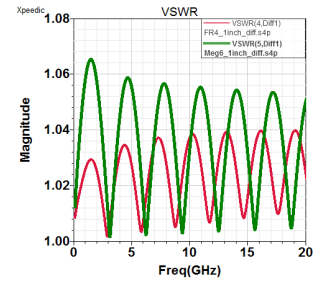
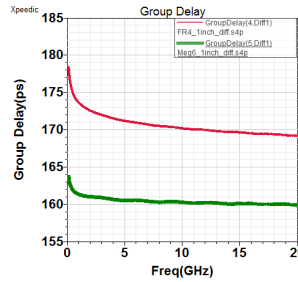
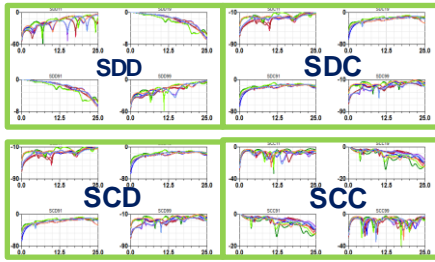
Thru-Only De-embedding (TOD)

- Built-in through-only de-embedding to remove fixture effect for SI applications.
- Support test fixture de-embedding with 2x thru, 1x open/short/reflect.
- Support multiple ports system de-embedding.



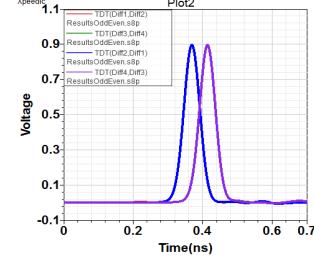
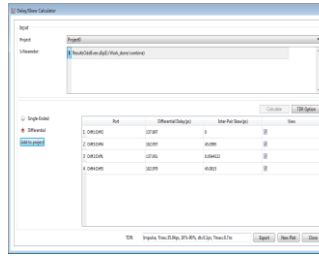
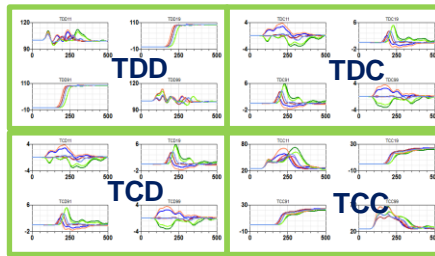
Frequency-Domain Plot

S-, Y-, Z-parameter, Diff S-parameter, Group delay, VSWR, customized function plot



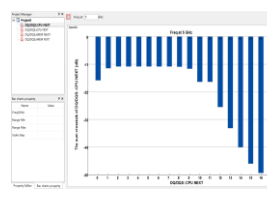
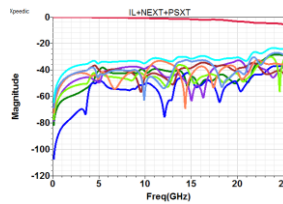
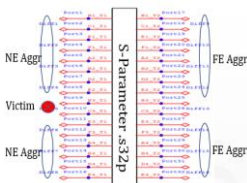
Time-Domain Plot

- TDR and TDT with step and impulse stimuli.
- Built-in delay calculator for both single-ended trace and differential pair, and skew calculator between two traces in each differential pair.



High-Speed Channel Analysis

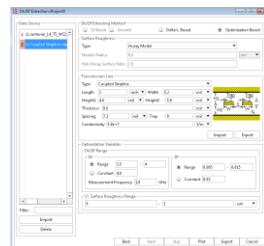
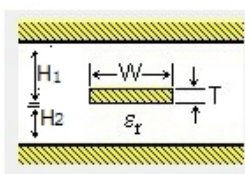
- Built-in crosstalk plots including FEXT, NEXT, PSXT, ILD, ICN, and ICR.
- Built-in COM calculator and USB-Type C analysis.
- Built-in customized DDR crosstalk calculation.



Name	CH0(SMA1, In)	CH1(SMA2, In)
DCM	20774.48	16387.48
DIFF coefficients	-0.138 1.036-0.17	0.14 1.036-0.17
CLD1 gain	12.48	12.48
CLD2 gain	-1.965 0.48	-1.965 0.48
Initial signal	1.03875 0.48	0.02875 0.48
bits	2	2
RegIn_TX	12	12
RegIn_RX07	12	12
RegIn_RX07	12	12
RegIn_RX1	12	12
band_width	20393	20393
Transmit	1.038	1.038
band_passing_coeff_0	1.038	1.038
band_passing_coeff_1	1.038	1.038
band_passing_coeff_2	1.038	1.038
band_passing_coeff_3	1.038	1.038

Dk/Df Extraction

- Dk/Df extraction feature helps PCB designers to get accurate material property from measurement.
- Optimization-based method has good correlation with measurement data.



One-Click Report Generation

Easy to generate report in Word/PPT/HTML.

