

Subject: About the S-Parameter Tools

Author: John Baprawski; John Baprawski Inc. (JB)

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This paper discusses features on the web site: <https://www.serdesdesign.com/>

Use of S-Parameters is inherent in the use of SerDes channel simulators and in the modeling of Tx and Rx IBIS-AMI models.

The SerDesDesign.com S-Parameter Tools is a collection of tools created and used by SerDesDesign.com over the past 10+ years helping over 40+ SerDes IC companies model SerDes systems and the IBIS-AMI models used in those systems.

The tools included in this collection are:

- [View SParameters Tool](#) to display the magnitude (dB) and phase (deg) response of the S-parameters versus frequency.
- [Compare SParameters Tool](#) to compare the responses of two S parameter files.
- [Combine SParameters Tool](#); to combine the cascade of up to five S parameter files.
- [Generate Causal SParameters Tool](#); to generate causal S-parameters for any S-parameter file (Supports S-parameters for: channels, Tx and Rx packages, Tx and Rx IBIS buffers).
- [About](#); Additional tool not available on the SerDesDesign.com web site.
- [Convert_S2P_to_S4P_Tool](#); to convert a SerDes circuit differential output (Tx) or input (Rx) port impedance (S2P data) into S4P data that can be used to represent the SerDes circuit IBIS buffer model.

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