

Subject: SerDes Design Free Tool

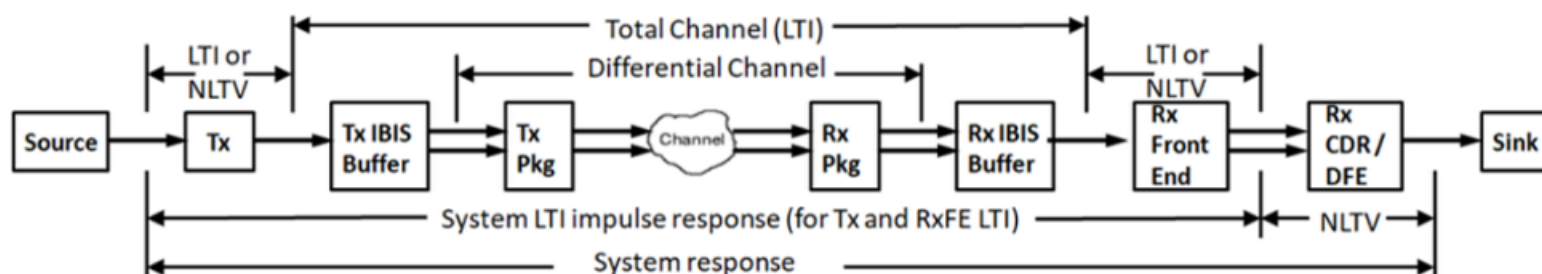
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This paper discusses features on the web site: <https://www.serdesdesign.com>

See the SerDes system tool: [SerDes System Tool](#).

A SerDes system for a single channel has the typical structure shown in this figure.



See details in [About the SerDes System Single Channel Tool...](#)

Free Tool

A SerDesDesign.com Free Tool provides free use of Tx and Rx IBIS-AMI models in any channel simulator and includes Tx and Rx IBIS-AMI model generation. The Free Tool is issued to a user with a time-based node-locked license.

The Free Tool has these additional benefits:

- A Free Tool is dedicated to the user on the individual's Windows 64-bit personal computer.
- With the Free Tool, the user uses their own local Windows PC with the associated speed performance improvement, and access to all their data files.

- Many Free Tools include an option to generate an unlimited number of IBIS-AMI models for use in any channel simulator on the users Windows PC with the same licensing terms as the Free Tool.

Obtaining a Free Tool

To obtain and use a SerDesDesign.com Free Tool, please follow these instructions.

- The user must register as a user on SerDesDesign.com with their business email.
- Their business must have a legitimate business web site URL.
- The user must request a Free Tool by sending an email to admin@serdesdesign.com
- Their email must include the following:
 - The email must be addressed from the email used for registration.
 - Include the user business web site URL.
 - List the Ethernet adapter Ethernet Physical Address and/or the Wireless LAN adapter Wi-Fi Physical Address for the Windows personal computer to be used with this tool.
 - This is observed by running Windows ipconfig in a command shell.
 - A tool is available to do this.
 - Download this Windows executable: [RunIPConfig.exe](#)
 - Run this executable.
 - It will print out a log file, MyPC_PhysicalAddress.log listing the Ethernet adapter Ethernet Physical Address and the Wireless LAN adapter Wi-Fi Physical Address.
 - If this tool is used, include file MyPC_PhysicalAddress.log with your email.
 - Include a statement on the interests the user has regarding SerDes systems and IBIS-AMI.

Upon receiving the request, and upon approval by SerDesDesign.com, the user will receive an email approving their tool including a link to an archive file (*.zip) for your private copy of the Free Tool to be used only on your designated Windows PC.

All Free Tools are Available With a Renewable License

All Free Tools are available for free for 30 days on a renewable basis. The Free Tool is issued to the user as a time-based node-locked license. The node lock is to the users Windows PC that was listed in the user's email discussed in the prior section.

Currently, these Free Tools are available:

- SerDesDesign.com Tx FFE IBIS-AMI Model Generator.
- SerDesDesign.com Tx CTLE IBIS-AMI Model Generator.
- SerDesDesign.com Rx FFE IBIS-AMI Model Generator.
- SerDesDesign.com Rx CTLE IBIS-AMI Model Generator.
- SerDesDesign.com Rx CTLE/ Nonlinearity/ CDR/ DFE IBIS-AMI Model Generator.
- SerDesDesign.com Repeater IBIS-AMI Model Generator.
 - This tool includes:
 - Tx FFE IBIS-AMI Model Generator
 - Rx CTLE/NL/CDR/DFE IBIS-AMI Model Generator.
 - It includes Back Channel Training (BCT) from the Repeater Rx input model to the Tx FFE model connected at the input of the prior channel.
 - This BCT is useful when multiple Repeaters are cascaded in a SeDes system.
- SerDesDesign.com E-O-E Repeater IBIS-AMI Model Generator.
 - E-O-E stands for Electrical-Optical-Electrical.
 - This tool includes:
 - Tx FFE IBIS-AMI Model Generator
 - Rx IBIS-AMI Model Generator with Electrical CTLE/NL/CDR/DFE and Optical VCSEL/Fiber/PIN/TIA.
 - It includes Back Channel Training (BCT) from the Repeater Rx input model to the Tx FFE model connected at the input of the prior channel.
 - This BCT is useful when multiple E-O-E Repeaters are cascaded in a SeDes system.
 - Provides support for SerDes repeaters, including Electrical-Optical-Electrical repeaters.

See the posted descriptions listed for each tool posed at my Store-Free-Tools web site: <https://www.serdesdesign.com/home/store-free-tools-free-tools>

Renew your free license by following the same process listed above for “Obtaining a Free Tool”.

If you have any comments or questions on a Free Tool, just contact me by email at johnb@serdesdesign.com

Notes on IBIS-AMI Models Generated by a Free Tool

All of the Free tools listed above include an option to generate IBIS-AMI models. Any number of IBIS-AMI models can be generated and is included in the tool license.

All Free Tool generated IBIS-AMI models will have the same licensing terms as the Free Tool, a time-based node-locked license to the same Windows PC.

For distribution of any generated IBIS-AMI model, the licensing can be removed for a fee so that the IBIS-AMI model can be distributed and used on any Windows/Linux machine.

- The fee is 50% of the SerDesDesign.com modeling fee as published on the Store web page (<https://www.serdesdesign.com/home/store>).
- For example: The store published price (subject to change) is 2,000 USD for one Tx or Rx IBIS-AMI model. Thus, the Free Tool fee to remove the time-based node-locked license is \$1,000 USD.
- Follow the instructions provided in the tool documentation.

Instead of purchasing the single distributable IBIS-AMI model, you can also obtain the source code and Window/Linux build projects for your IBIS-AMI model for unlimited modification and distribution for any other IBIS-AMI models with the same architecture by purchasing IBIS-AMI Training for the IBIS-AMI model. The training fee is as published on the Store web page.

- For example: The store published price (subject to change) is 6,000 USD for IBIS-AMI Model Training (reduced for prior customers). Delivery is with source code and Windows/Linux build projects.

Terms and Conditions

See terms and conditions for IBIS-AMI Modeling are at this link: [Terms & Conditions | Privacy Policy](#)