

Subject: SerDes Design Free Tool

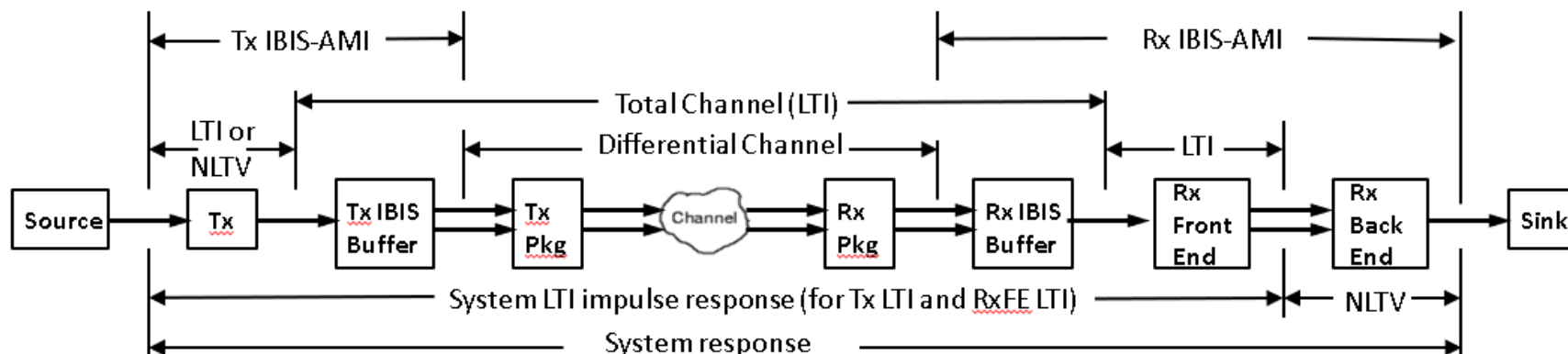
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This paper discusses features on the web site: <https://www.serdesdesign.com>

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:

SerDesDesign.com SerDes_Design_Free_Tool

- A Free Tool is dedicated to the user on the individual's Windows or Linux 64-bit computer.
- With the Free Tool, the user uses their own local computer 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 user's computer 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 or Linux computer to be used with this tool.
 - For Windows: This is observed by running Windows ipconfig in a command shell.
 - A tool is available to do this. Download and run this Windows executable: [RunIPConfig.exe](#)
 - 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.
 - For Linux: This is observed by running Linux ifconfig in a command shell.
 - Use the listed Eth or Wi-Fi physical address.
 - Include a statement on the interests the user has regarding SerDes systems and IBIS-AMI.
 - Include a list of Free Tools one wants to obtain for local installation onto the user's Windows PC

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 Rx CTLE IBIS-AMI Model Generator.
- SerDesDesign.com Rx CTLE/ CDR/ DFE IBIS-AMI Model Generator.
- SerDesDesign.com Repeater IBIS-AMI Model Generator.
 - This tool includes:
 - Tx FFE IBIS-AMI Model Generator
 - Rx CTLE/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/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/Linux computer.

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](#)