LINEEYE

LE590-NIC User's Manual

LINEEYE

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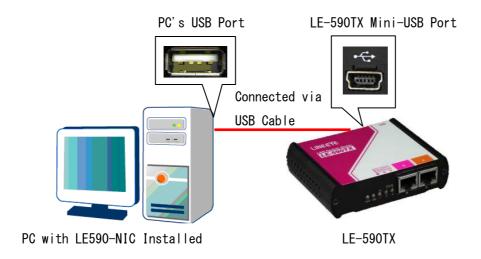


1. LE590-NIC Overview

LE-590TX has a mini-USB port for PC connection. In addition to network TAP, system control and system upgrade functions. LE-590TX can also be used as a network interface card. With control software and LE-590TX's hardware conversion, network data streams can flow between LE-590TX's USB and network port.

1.1. Hardware Installation

Before starting LE590-NIC, your PC and LE-590TX shall be connected properly. The figure down below illustrates connecting PC and LE-590TX. You can connect LE-590TX with PC in the same manner.

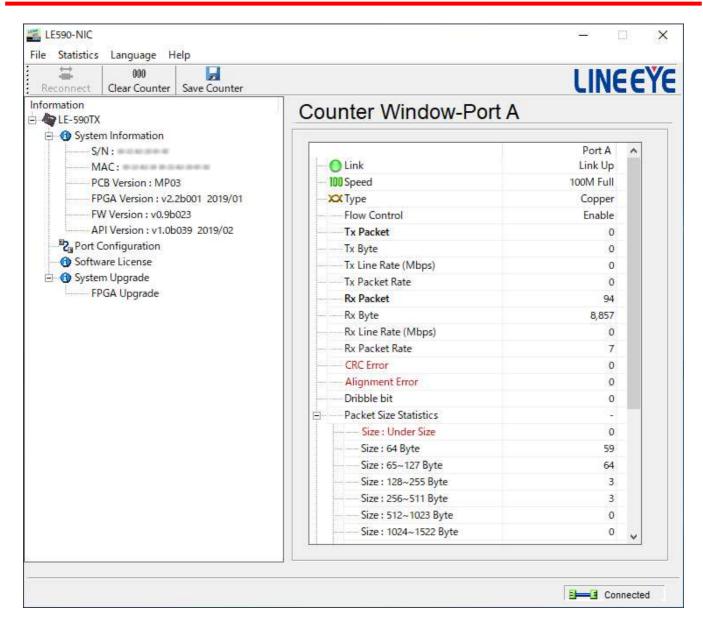


1.2. Starting LE590-NIC

Before starting LE590-NIC, the DUT, your PC, and LE-590TX shall be connected as shown in "1.1. Hardware Installation".

You can start running LE590-NIC by: > Click Start → Programs → LINEEYE → LE-590TX → LE590-NIC Vxxxxx → LE590-NIC Vxxxxx. > Double-click LE590-NIC icon located on your PC's desktop.



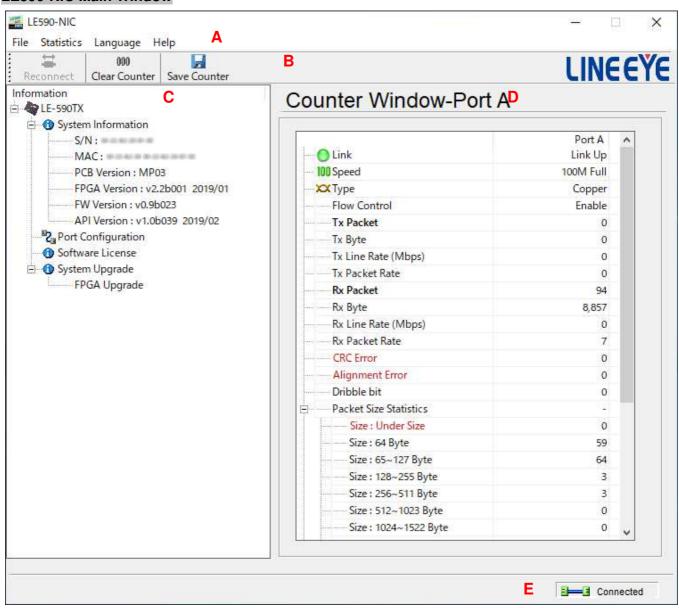


If your PC is not connected with LE-590TX, you can still run LE590-NIC under Demo mode. Almost all LE590-NIC's functions are available under Demo Mode. However, please note that **Demo Mode is for system demo purposes only**, and does not serve any testing purposes at all.



1.3. LE590-NIC Main Window Overview

LE590-NIC Main Window



LE590-NIC Functions Overview		
A	Menu Bar	The Menu Bar allows you to switch between counter of port A or port B, to enable or disable flow control, to upgrade the FPGA and License of your LE-590TX, change language displayed, view the version of the software/LE-590TX and system requirement.
В	Tool Bar	The Tool Bar allows you to reconnect your PC to your LE-590TX, clear counter window of port A or B and save the counter result.
С	System Info/Software License	From System Info/Software License you can view the system information and the Software License of your current connected LE-590TX.
D	Counter Window	You can view real-time testing diagrams in here.
Е	System Connection Status	This icon shows the connection status between your PC and LE-590TX.

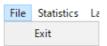


1.4. Menu Bar

File Statistics Language Help

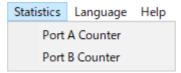
LE590-NIC Menu Bar includes configuration options such as **File**, **Statistics**, **Language**, and **Help**. Please refer to the sections down below for detail information regarding to each configuration option.

1.4.1. File



File	
Exit	A prompt pop-up window will ask if you are sure to exit LE590-NIC. Click YES to exit LE590-NIC, or click NO to cancel.

1.4.2. Statistics



Statistics		
Port A/B Counter	You can select Port A or Port B counter window to be displayed by clicking Port A Counter or Port B Counter .	

1.4.3. Language

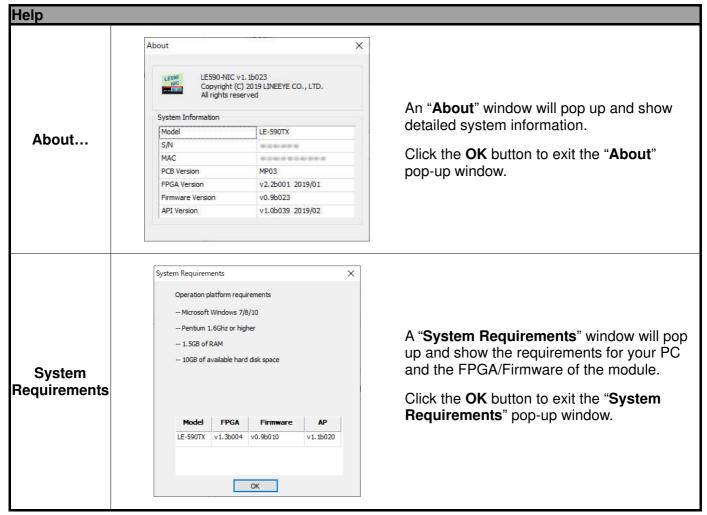


Language	
English/	LE590-NIC has 2 different languages for its UI available. You can set the language of UI to
Japanese	English or Japanese.



1.4.4. Help





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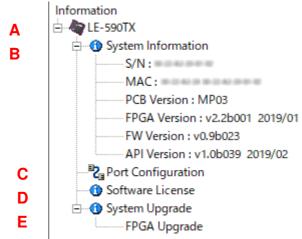
1.5. Tool Bar



The **Tool Bar** allows you to reconnect your PC to your LE-590TX, clear counter window of port A or B and save the counter result.

Tool Bar		
サキ 領部 Reconnect	If the USB connection between your PC and LE-590TX is down, a "Disconnected" icon will be shown in "System Connection Status". Press Reconnect button Reconnect to re-establish the connection between your PC and LE-590TX. If the connection has been established successfully, a message window will pop up, and the "System Connection Status" will be shown as "Connected" Connected.	
000 Clear Counter	Click the Clear Counter button to refresh the Counter Window-Port A and Counter Window-Port B.	
Save Counter	Click the Save Counter button to save the current Counter Window-Port A and Counter Window-Port B results.	

1.6. System Info/Software License

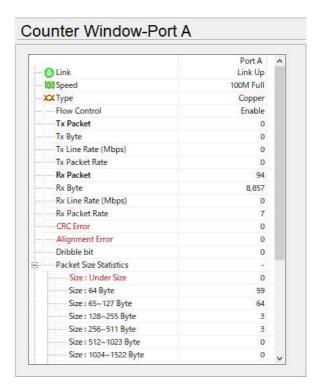


The **System Info/Configuration List** allows you to view system information, making port/test configurations, and check test reports on the **Main Display Screen**.

System Info/Software License			
Α	Shows the current LE-590TX model connected to your PC.		
В	Shows the current information of the System		
С	You can select choose to Enable or Disable the Flow Control here.		
D	Click on the LE590 software to pop up a window showing the license information regarding to other LINEEYE softwares.		
Е	FPGA upgrade will allow you to upgrade the FPGA version of your LE-590TX.		



1.7. Counter Window



The Counter Window shows the status of the packets transmission of Port A and Port B of your LE-590TX, when it performs simulation of Network Interface Card (NIC).

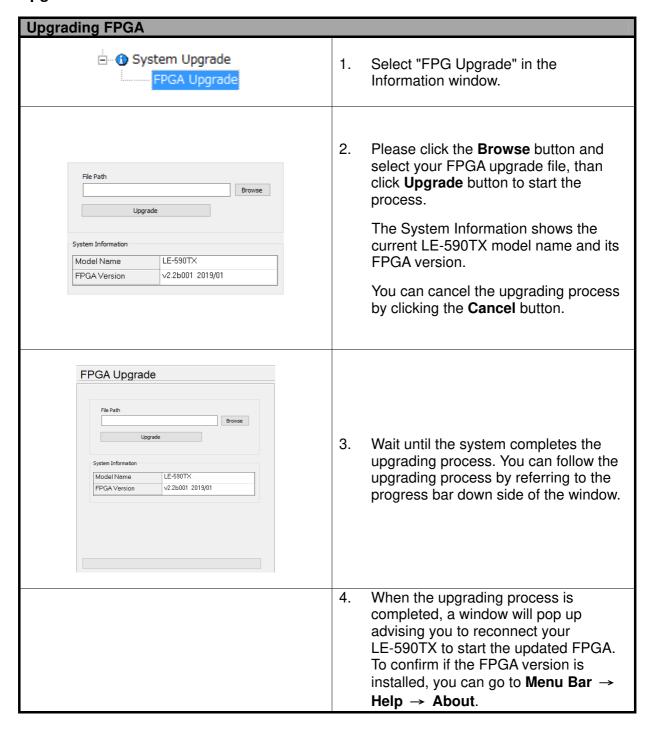
For more details about simulation of Network Interface Card (NIC), please refer to the **3. Simulation of Network Interface Card (NIC)**.



2. FPGA and License upgrade

You can upgrade the FPGA and License of your LE-590TX from LE590-NIC. Please connect your LE-590TX on your PC as shown on the figure of **1.1. Hardware Installation.**

2.1. Upgrade FPGA

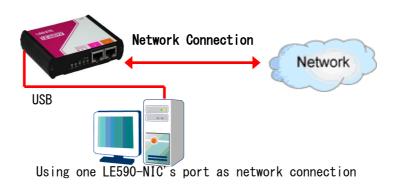


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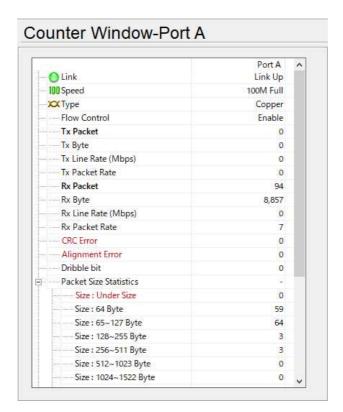


3. Simulation of Network Interface Card (NIC)

LE590-NIC is a software that allows LE-590TX to perform simulation of Network Interface Card (NIC). Please connect your LE-590TX on your PC as shown on the figure below:



Through LE590-NIC, the network traffic status is showed based on Tx/Rx, CRC error, alignment error, dribble bit, packet size statistics, layer 2 packet counters and network layer conditions, please refer to the figure below:



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