

**LINEEYE**

**LE590-TAP**  
**User's Manual**

## Table of Contents

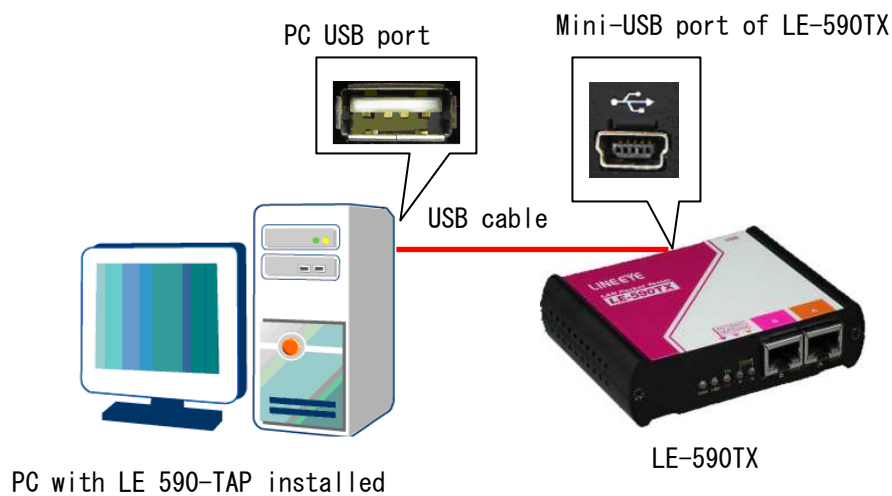
<b>1. LE590-TAP Overview .....</b>	<b>3</b>
1.1. Hardware Installation .....	3
1.2. Starting LE590-TAP .....	3
1.3. LE590-TAP Main Window Overview .....	5
<b>2. LE590-TAP Functions .....</b>	<b>6</b>
2.1. Menu Bar .....	6
2.1.1. File .....	6
2.1.2. Config .....	7
2.1.2.1. Run Mode .....	7
2.1.2.2. Port Configuration .....	7
2.1.2.3. Frame gap for USB transferring .....	8
2.1.2.4. Options .....	8
2.1.3. Statistics .....	9
2.1.3.1. Counter Window .....	9
2.1.3.2. Alarm Report .....	10
2.1.4. Control .....	11
2.1.4.1. Capture Forward .....	11
2.1.4.3. Auto Save .....	12
2.1.5. Languages .....	12
2.1.6. Help .....	13
2.2. Tool Bar .....	14
2.2.1. Reconnect .....	14
2.2.2. Counter .....	14
2.2.3. USC A & USC B .....	15
2.2.4. Chart .....	16
2.2.5. Port AB .....	19
2.3. System Info/Configuration List .....	23
2.3.1. System Information .....	24
2.3.2. Port A & Port B .....	25
2.3.3. Port A / Port B .....	26
2.3.3.1. Media Type, Capture Criteria, Loopback and Alarm .....	26
2.3.3.2. Media Status .....	26
2.3.3.3. Capture Buffer Mode and Capture Forward Mode .....	27
2.3.4. Report: USC A/B .....	28
2.4. Control Buttons/ Operating Status Icon .....	28
2.4.1. For TAP mode .....	28
2.4.2. For Layer 1/Layer 2 Loopback mode and Single-End mode .....	28

## 1. LE590-TAP Overview

For LE-590TX, all data streams between two network ports can be duplicated and sent to PC via mini USB port for monitoring and analyzing. The user can specify conditions to filter the packets wanted with LE590-TAP application software. It reduces USB port's network traffic and also cuts down PC resource consumption while dealing with large quantity of packets.

### 1.1. Hardware Installation

Before starting LE590-TAP, 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-TAP

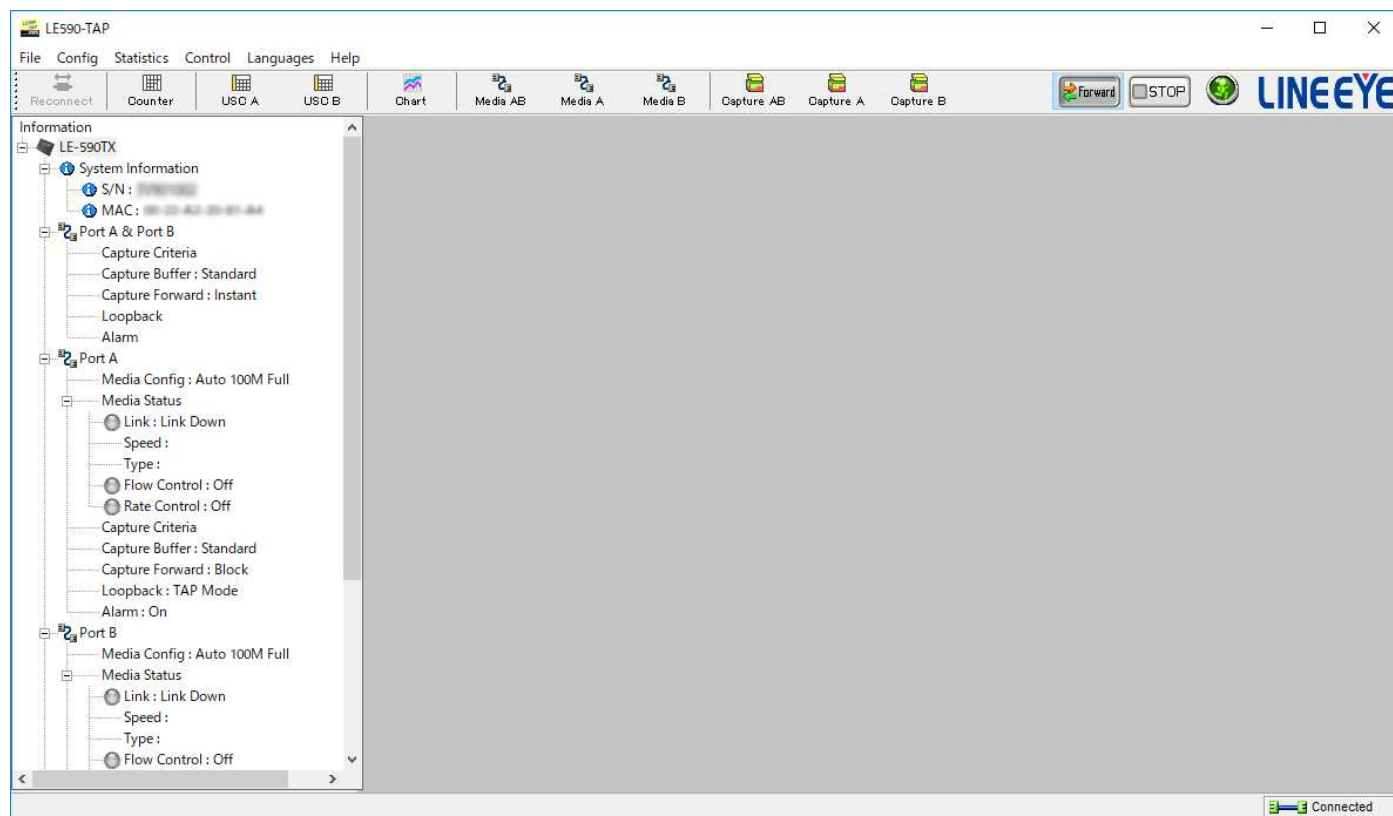
#### Starting LE590-TAP

- Click Start → Programs → LINEEYE → LE-590TX → LE590-TAP Vxxxxxx → LE590-TAP Vxxxxxx

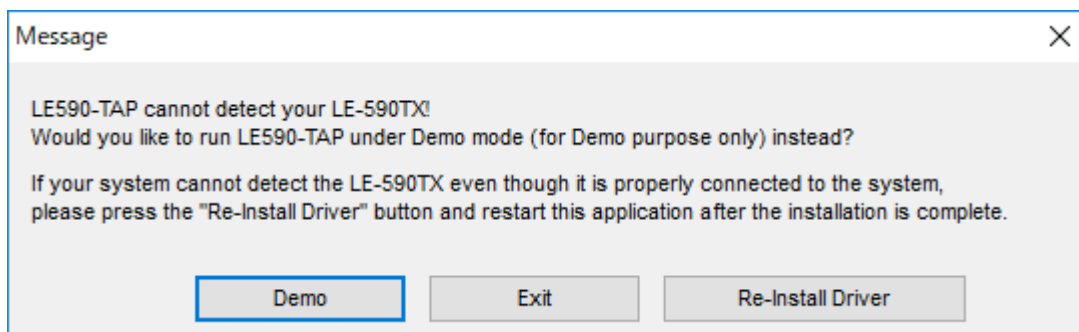


- Double-click LE590-TAP icon located on your PC's desktop.

This manual is for LE590-TAP v1.1b072 or later.

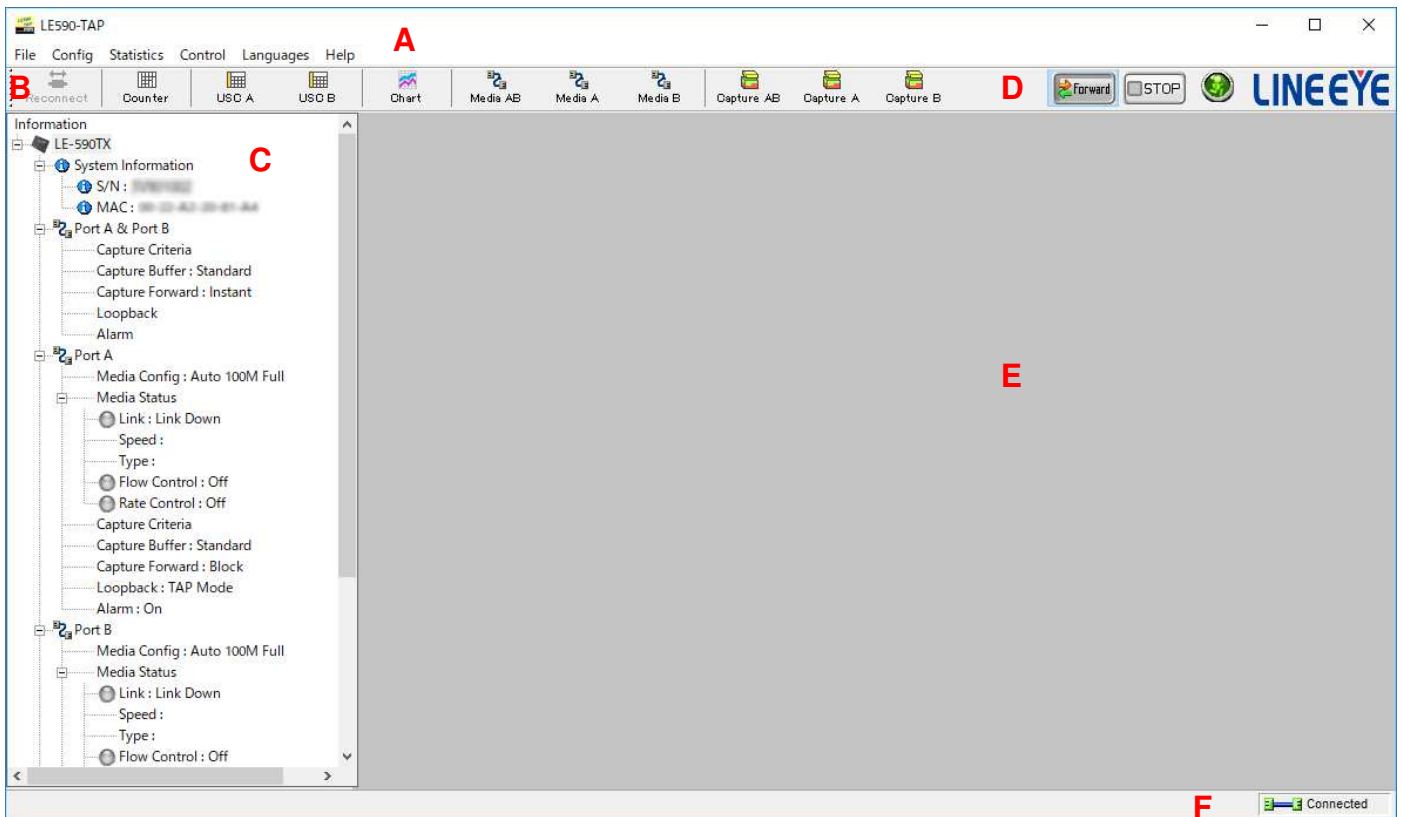


If your PC is not connected with LE-590TX, you can still run LE590-TAP under Demo Mode. Almost all LE590-TAP's functions are available under Demo Mode. However, please note that **Demo Mode is for system demo purposes only**, and does not serve any testing purposes at all.



When your PC cannot detect your LE-590TX, a window as shown above will pop up asking if you want to start the LE590-TAP in Demo mode or not, also a third option will pop up asking if you want to re-install WinPcap for successfully run the LE590-TAP.

1.3. LE590-TAP Main Window Overview



LE590-TAP Functions Overview		
A	<b>Menu Bar</b>	The <b>Menu Bar</b> allows you to make settings about task criteria, view Counter window, load/save settings you've made, and change language displayed.
B	<b>Tool Bar</b>	The <b>Tool Bar</b> contains buttons that allow you to reconnect your PC to LE-590TX, make task/port configurations, view Counter, USC A/B and Charts.
C	<b>Information Field</b>	In the <b>Information Field</b> , you can view system information, making port configurations, or view port and USC status on right side <b>Main Display Screen</b> .
D	<b>Control Buttons/ Run Status Icon</b>	The <b>Control Buttons</b> allow you to start/stop tasks, and the <b>Run Status Icon</b> indicates if there's a task running.
E	<b>Main Display Screen</b>	You can make detail configurations and view real-time testing diagrams on the <b>Main Display Screen</b> .
F	<b>System Connection Status</b>	This icon shows the connection status between your PC and LE-590TX.

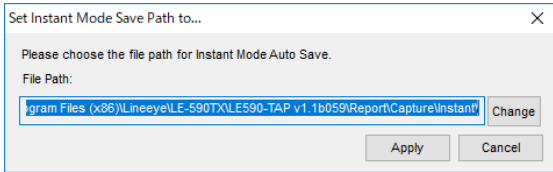
## 2. LE590-TAP Functions

### 2.1. Menu Bar

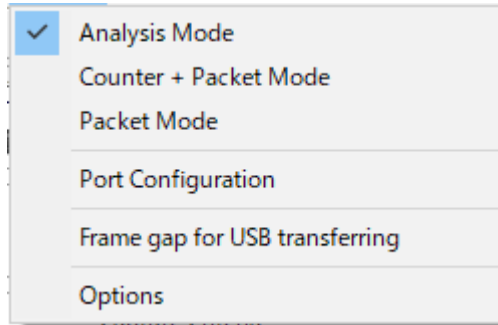
[File](#) [Config](#) [Statistics](#) [Control](#) [Languages](#) [Help](#)

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

#### 2.1.1. File

File	
<b>Load default configuration</b>	If you choose the <b>Load Default Configuration</b> option, the system will be restored to the default configuration.
<b>Load Saved Configuration</b>	<p>If you have a previously saved configuration setting file stored in your PC, you can load it and apply all the setting you've made by choosing "<b>File → Load Saved Configuration</b>" from the <b>Menu Bar</b>.</p> <p>All configuration files are saved in the format of "<b>*.xml</b>".</p>
<b>Save current configuration</b>	<p>The <b>Save current configuration</b> function on the <b>Menu Bar</b> allow you to save the settings you've made or the test results.</p> <p>To save the settings you've made, choose "<b>Save current configuration</b>" from the <b>Menu Bar</b> before performing any tasks, and choose the file path where you would like to save the configuration file. Configuration files are saved in the format of "<b>*.xml</b>".</p>
<b>Set Instant Mode Save Path to...</b>	<div style="display: flex; align-items: flex-start;">  <div style="margin-left: 20px;"> <p>In this option, you can set the file path for auto save function. Click <b>Change</b> button to choose a new path, and <b>Apply</b> button to save the setting, or <b>Cancel</b> button to close the window.</p> </div> </div>
<b>Exit</b>	A prompt pop-up window will ask if you are sure to exit LE590-TAP. Click <b>YES</b> to exit LE590-TAP, or click <b>NO</b> to cancel.

2.1.2. Config



2.1.2.1. Run Mode

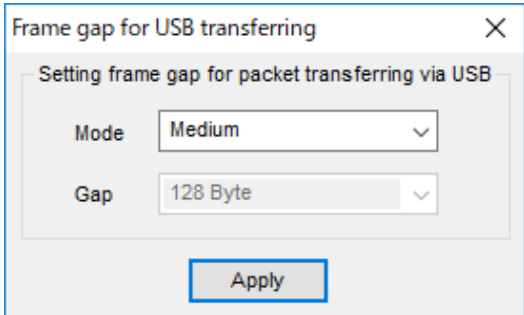
Run Mode	
<b>Analysis Mode</b>	All the function of LE590-TAP is available.
<b>Counter Mode</b>	The packets capture function and interface will rely on Wireshark software.
<b>Packet Mode</b>	The packets capture function and interface will rely on others software. The Counter table will not show the status of capturing packets.

2.1.2.2. Port Configuration

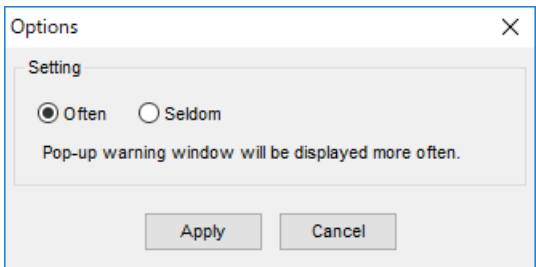
Port Configuration	
	<p>Click the <b>Flow Control</b> bar to turn <b>Port A/B's Flow Control On/Off</b>.</p> <p>If you turn <b>ON</b> the <b>Flow Control</b>, the <b>Rate Control</b> settings will be available. And when you turn <b>On</b> the <b>Rate Control</b>, you may set the <b>Rate</b> between 0.00~1000.00 Mbps.</p> <p>After <b>finishing</b> the settings, please click <b>Apply</b> button to save the configuration, or click <b>Cancel</b> to close window without saving..</p>
	<p>In this window, you can set if the future warning window will pop up more often by choosing the <b>Often</b> option, or pop up less warning window by choosing <b>Seldom</b> option.</p> <p>After finishing the settings, please click <b>Apply</b> button to save the configuration, or click <b>Cancel</b> to close window without saving.</p>

\*Note: Changing settings in Port Configuration window might cause Link Status changes and packet loss.

### 2.1.2.3. Frame gap for USB transferring

Port Configuration	
	<p>Four modes are available in <b>Frame gap for USB transferring</b>: <b>Fast, Medium, Slow and User Define</b>. If you choose the <b>User Define</b> option, the <b>Gap</b> scroll field will be available to scroll down and to choose the size of frame gap. After finishing the settings, please click <b>Apply</b> button to save the configuration.</p>

### 2.1.2.4. Options

Options	
	<p>In this window, you can set if the future warning window will pop up more often by choosing the <b>Often</b> option, or pop up less warning window by choosing <b>Seldom</b> option. After finishing the settings, please click <b>Apply</b> button to save the configuration, or click <b>Cancel</b> to close window without saving.</p>

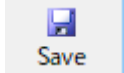

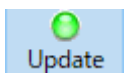
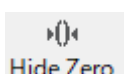


\*Note: Changing settings in Port Configuration window might cause Link Status changes and packet loss.



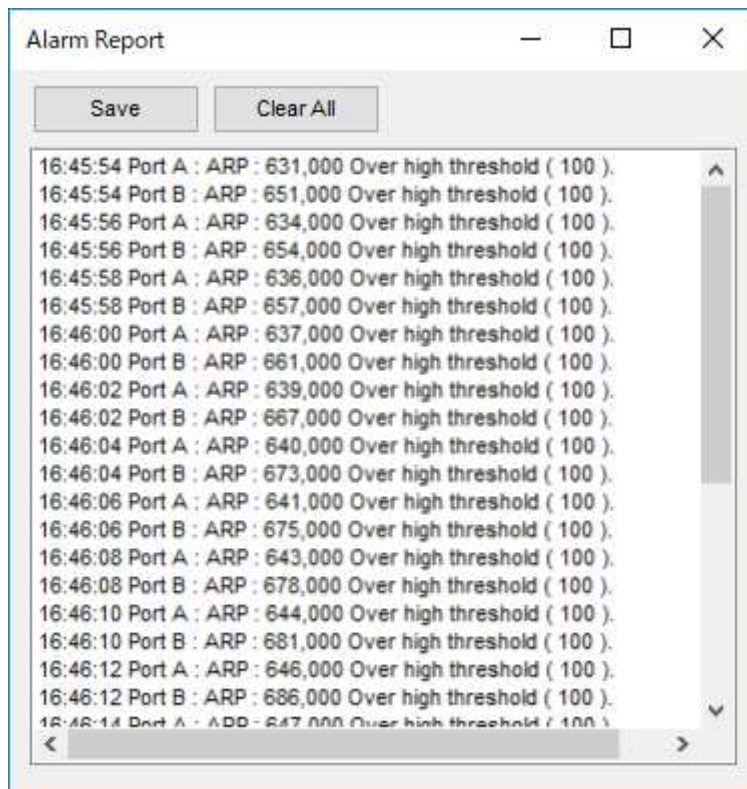
2.1.3. Statistics

2.1.3.1. Counter Window

Counter Window			
	Port A	Port B	Port AB
Link Status	Link Down	Link Down	N/A
Speed mode	N/A	N/A	N/A
Tx Packet	0	0	0
Tx Byte	0	0	0
Tx Packets Rate	0	0	N/A
Tx Line Rate (Mbps)	0.00	0.00	N/A
Tx Utilization(%)	0.00	0.00	N/A
Rx Packet	0	0	0
Rx Byte	0	0	0
Rx Packets Rate	0	0	N/A
Rx Line Rate (Mbps)	0.00	0.00	N/A
Rx Utilization(%)	0.00	0.00	N/A
CRC Error	0	0	0
Alignment Error	0	0	0
Dribble bit	0	0	0
Packet Size Statistics	-	-	-
Size : Under Size	0	0	0
Size : 64 Byte	0	0	0
Size : 65~127 Byte	0	0	0
Size : 128~255 Byte	0	0	0
Size : 256~511 Byte	0	0	0
Size : 512~1023 Byte	0	0	0
Size : 1024~1522 Byte	0	0	0
Size : Over Size	0	0	0
Lower 2 Packet Counters	-	-	-

Counter Window	
	Click the <b>Save</b> button to save the current counter data.
	The <b>Update</b> button allows you to pause or start the counter operation. If the <b>Update</b> button is shown as the figure on the left, then the counter operation is paused.
	If the <b>Update</b> button is shown as the figure on the left, the counter operation is started.
	Hide the data of zero.
	Show all data.
	Click the <b>Clear All</b> button to clear the counter data.

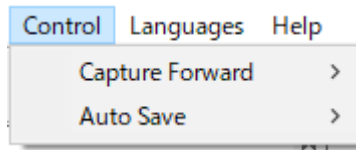
### 2.1.3.2. Alarm Report



This window will warn you about the over high threshold of the parameter chosen in port configuration, for more detail about how to set the parameter to be presented on Alarm Report window, please refer to the **2.2.5. Port AB, Alarm.**

The **Save** button allows you to save the **Alarm Report** data on a path folder. If you click the **Clear All** button, you will clear all the data gathered on this window.

## 2.1.4. Control



### 2.1.4.1. Capture Forward



Capture Forward	
<b>Block</b>	Records received packets in the internal memory and forwards them to the PC via USB. After capturing data, it is possible to check the captured packets up to 32768 packets (16384 packets for one port). (Set the maximum packets in the "Capture Packet Number" in the Capture Criteria.)
<b>Instant</b>	Received packets are immediately forwarded to the PC via USB. It is possible to check the captured packets while the capture operation. 20000 packets are saved as one file, and the latest 20000 packets are displayed in the screen.

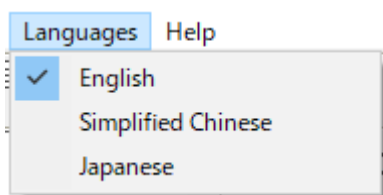
**\*Note: Data is saved as a pcap format. To check the recorded data, you need to have a software such as Wireshark.**

2.1.4.3. Auto Save



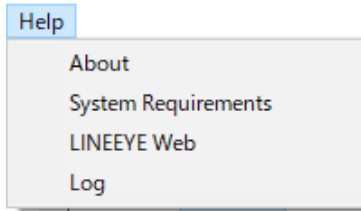
Auto Save	
<b>Chart Data</b>	Click this option to auto save <b>Chart Data</b> to the Report folder below your LE590-TAP folder in each 60 min.
<b>Alarm Report</b>	Click this option to auto save <b>Alarm Report</b> to the Report folder below your LE590-TAP folder in each 60 min.
<b>Auto Save Setting</b>	<p>The 'Auto Save Options' dialog box has a close button (X) in the top right. It contains two sections: 'Charts' with an unchecked checkbox and a slider set to 15 mins; and 'Alerts' with a checked checkbox and a slider set to 15 mins. Both sliders have markers for 15, 30, 45, and 60 minutes. An 'Apply' button is at the bottom right.</p>

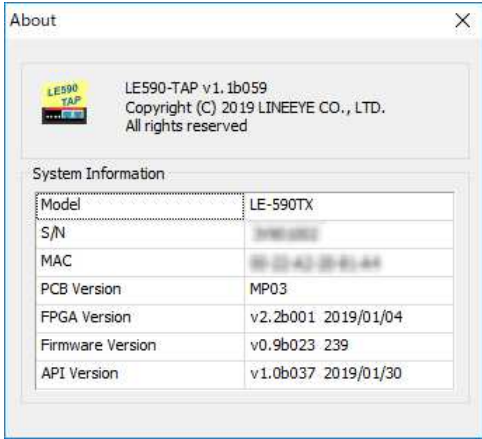
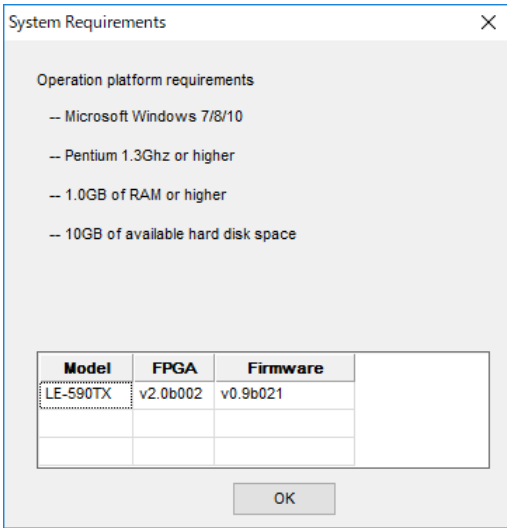
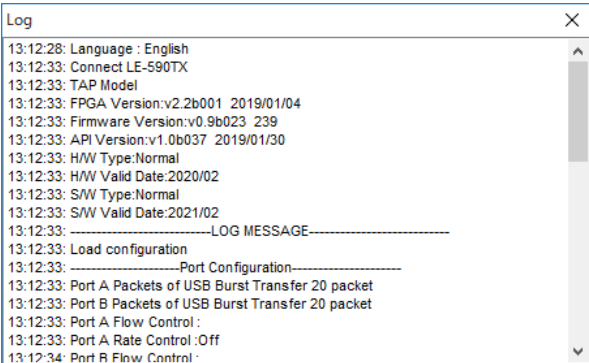
2.1.5. Languages



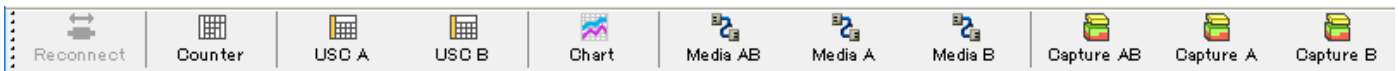
Languages	
<b>English/Simplified Chinese/Japanese</b>	LE590-TAP has 3 different languages for its UI available. You can set the UI language to English, Simplified Chinese or Japanese.

2.1.6. Help



Help	
<p><b>About LE590-TAP</b></p>	 <p>An <b>“About”</b> window will pop up and show detailed system information.</p>
<p><b>System Requirements</b></p>	 <p>A <b>“System Requirements”</b> window will pop up and show the requirements for your PC, FPGA/Firmware, AP and API version of the equipment.</p> <ul style="list-style-type: none"> <li>➤ <b>OK:</b> Click this button to exit the <b>“System Requirements”</b> pop-up window.</li> </ul>
<p><b>LINEEYE Web</b></p>	<p>Open your default web browser and access LINEEYE Website (<a href="http://www.lineeye.com">www.lineeye.com</a>)</p>
<p><b>Log</b></p>	 <p>Clicking this option will pop up a <b>LOG</b> window showing the settings that you made on LE590-TAP program so far.</p>

## 2.2. Tool Bar



The **Tool Bar** contains buttons that allow you to reconnect LE-590TX, view Counter, view USC A/B, view Chart and Configure Port A/B. Please refer to the section down below for more detail descriptions regarding to **Quick Launch Buttons**.

### 2.2.1. Reconnect

**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 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**” .

### 2.2.2. Counter

**Counter**

**Counter**

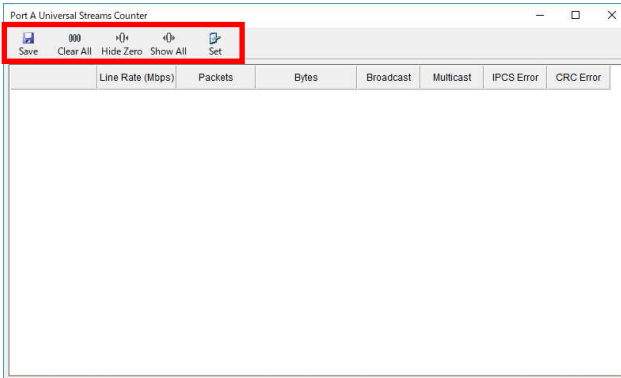
Counter Window			
	Port A	Port B	Port AB
Link Status	Link Down	Link Down	N/A
Speed mode	N/A	N/A	N/A
Tx Packet	0	0	0
Tx Byte	0	0	0
Tx Packets Rate	0	0	0
Tx Line Rate (Mbps)	0.00	0.00	0.00
Tx Utilization(%)	0.00	0.00	0.00
Rx Packet	0	0	0
Rx Byte	0	0	0
Rx Packets Rate	0	0	0
Rx Line Rate (Mbps)	0.00	0.00	0.00
Rx Utilization(%)	0.00	0.00	0.00
CRC Error	0	0	0
Alignment Error	0	0	0
Drabble bit	0	0	0
Packet Size Statistics	-	-	-
Size: Under Size	0	0	0
Size: 64 Byte	0	0	0
Size: 65-127 Byte	0	0	0
Size: 128-255 Byte	0	0	0
Size: 256-511 Byte	0	0	0
Size: 512-1023 Byte	0	0	0

If you click the Counter button, the Counter Window will pop up showing the status of the packets.

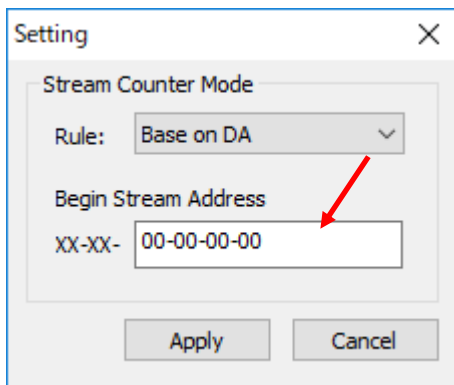
For more information, please refer to the **2.1.3.1. Counter Window**.

2.2.3. USC A & USC B

USC A/B



- Save Allows you to save the data of this window.
- Clear All Clear all the data of this window.
- Hide Zero Hide all the data that is zero.
- Show All Show all the data of this window.
- Set Set the Stream Counter Mode.

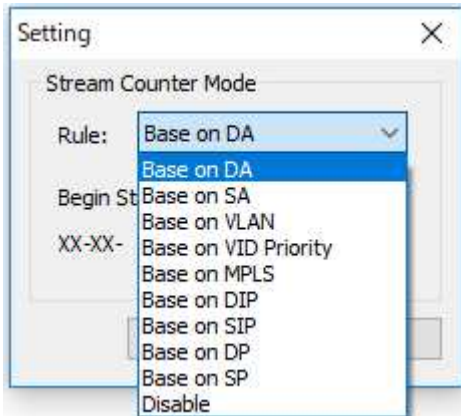


Click the button to pop up the **Setting** window. In this window, you may modify the **Rule** (Stream Counter Mode) of USC. The chosen mode will be shown in the side pointed by the red arrow.

Click the **Apply** button to save this setting or **Cancel** to close this window without saving.

**Note: The Operation mode is not available yet.**

USC A



The left figure shows the **Rule** (Stream Counter Mode) available when you scroll down the field.

DA #	Line Rate (Mbps)	Packets	Bytes	Broadcast	Multicast	IPCS Error	CRC Error
00-00-00-00	0.00	0	0	0	0	0	0
00-00-00-01	0.00	0	0	0	0	0	0
00-00-00-02	0.00	0	0	0	0	0	0
00-00-00-03	0.00	0	0	0	0	0	0
00-00-00-04	0.00	0	0	0	0	0	0
00-00-00-05	0.00	0	0	0	0	0	0
00-00-00-06	0.00	0	0	0	0	0	0
00-00-00-07	0.00	0	0	0	0	0	0
00-00-00-08	0.00	0	0	0	0	0	0
00-00-00-09	0.00	0	0	0	0	0	0
00-00-00-0A	0.00	0	0	0	0	0	0
00-00-00-0B	0.00	0	0	0	0	0	0
00-00-00-0C	0.00	0	0	0	0	0	0
00-00-00-0D	0.00	0	0	0	0	0	0
00-00-00-0E	0.00	0	0	0	0	0	0
00-00-00-0F	0.00	0	0	0	0	0	0
00-00-00-10	0.00	0	0	0	0	0	0
00-00-00-11	0.00	0	0	0	0	0	0

After applying your settings made on the **Setting** window, the changes will be shown on the **Port Universal Streams Counter** window.

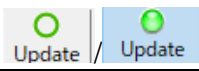
2.2.4. Chart



Click the **Chart** button to pop up the **Chart** window shown above. From **A** bar, you can click the **Line** button to see Packets status in line chart as shown in **B** field. The lines shown in the chart depends on the parameters chosen in **C** field.

You can set the Rate of packets to be analyzed in Mbps in **D** field. If you set in **Auto mode**, the **Rate** will be set under a default setting, if you set in **User Define** mode, than a **Minimum** and a **Maximum** rate range will be available to modify.

You can open a saved chart by clicking the **Load** button from **A** bar. When opening a saved chart, the **Start/End Time** scroll field from **E** will be available. The function of **Start/End Time** allows you to check the status of the packets of the saved chart in different times.

The **Update** button  allows you to pause or start the counter operation.



**Chart Pie**

A

B

Port A -> B

Port B -> A

Vertical Axis Scale (Port A -> B)

Rate (Mbps)  Auto  User Define

Minimum : 0 Maximum : 1000

Vertical Axis Scale (Port B -> A)

Rate (Mbps)  Auto  User Define

Minimum : 0 Maximum : 1000

Start Time :

End Time :

D


Click the Pie button as shown in **A** to view the pie chart in **B** field. The pie chart shows the percentage of each captured packet size during the operation of the **LE590-TAP**.

You can set the Rate of packets to be analyzed in Mbps in **C** field. If you set in **Auto mode**, the **Rate** will be set under a default setting, if you set in **User Define** mode, than a **Minimum** and a **Maximum** rate range will be available to modify.


You can open a saved chart by clicking the Load button. When opening a saved chart, the **Start/End Time** scroll field from **D** will be available. The function of **Start/End Time** allows you to check the status of the packets of the saved chart in different times.

**Chart Bar**

The screenshot shows a 'Chart' window with a toolbar containing 'Load', 'Update', 'Line', 'Pie', and 'Bar' buttons. The 'Bar' button is highlighted with a red box and labeled 'A'. Below the toolbar are two bar charts: 'Port A -> B' and 'Port B -> A'. Both charts have a vertical axis scale from 0 to 2,000,000 and a horizontal axis with categories: BC, MC, UC, VLAN, IPv4, ICMP, ARP, and Pause. The 'UC' category shows the highest count in both charts. Below the charts are two 'Vertical Axis Scale' sections, each with 'Rate (Mbps)' options for 'Auto' and 'User Define', and 'Minimum' and 'Maximum' input fields. The 'User Define' section is highlighted with a red box and labeled 'D'. A 'Chart' icon is visible on the left side of the interface.

**A** Click the  button as shown in **A** to view the bar chart in **B** field. The Bar chart shows the rate of network event counts from Port A to Port B and Port B to Port A. Those includes: BC (Layer 2 Broadcast), MC (Layer 2 Multicast), UC (Layer 2 Unicast), VLAN, IPv4, ICMP (Ping), ARP, PAUSE.

You can set the Rate of packets to be analyzed in Mbps in **C** field. If you set in **Auto mode**, the **Rate** will be set under a default setting, if you set in **User Define** mode, than a **Minimum** and a **Maximum** rate range will be available to modify.

You can open a saved chart by clicking the  button. When opening a saved chart, the **Start/End Time** scroll field from **D** will be available. The function of **Start/End Time** allows you to check the status of the packets of the saved chart in different times.

## 2.2.5. Port AB

**Port AB Media Type**


**Port A & Port B : Media Config**

Media Config
Capture Criteria
Loopback
Alarm

Auto  
 10M Half  
 10M Full  
 100M Half  
 100M Full

Force  
 Force 10M Full     Disable  
 Force 100M Full

**MDIX**  
 Auto MDIX  
 Force MDI (NIC side)  
 Force MDI-X (Switch side)

  
 Media AB

Click the **Port AB** button to pop up the Port AB configuration interface. In this interface, you can set the **Media type** as **Auto** or **Force** mode.

The **Auto** mode enables to choose the rate in 10/100M under Half/Full duplex, but it may be auto modified by the LE590-TAP program to a best rate to run.

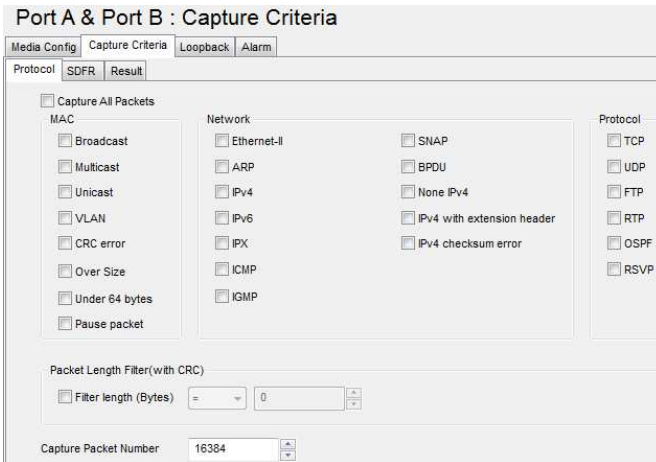
The **Force** mode enables to choose and fix the transfer rate in 10/100M under Full duplex.

You can also set **MDIX** mode here, and click the **Set** button to save settings made for **MDIX** mode:

- If you set **Auto MDIX** mode, the LE590-TAP will auto sense the direction of Tx/Rx for signal connection between **LE-590TX** with **NIC/Switch** side.
- You can choose **Force MDI (NIC side)** to force the direction of the Tx/Rx signal based on NIC side.
- You can choose **Force MDI-X (Switch side)** to force the direction of the Tx/Rx signal based on Switch side.

Click the **Apply** button to save the settings, or **Cancel** button to recover to the default configuration.

Port AB Capture Criteria

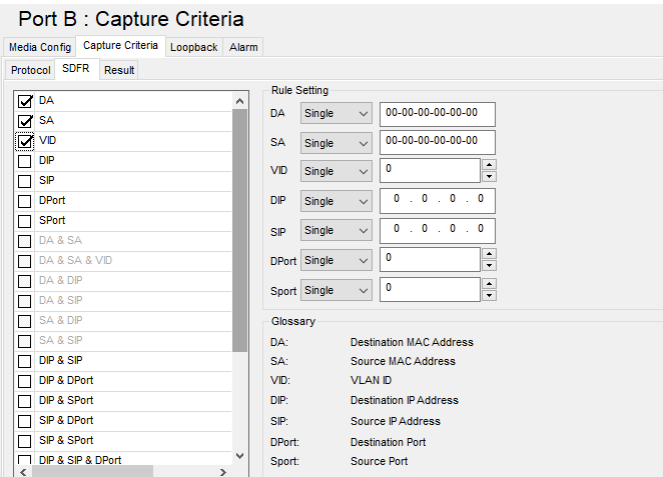


In the **Protocol** interface, If you click the **Capture all packets** function, you will enable the LE590-TAP to capture all packets criteria.

If you close the **Capture all packets** function, than the criteria from **MAC**, **Network** and **Protocol** will be available to choose.

The **Packet length filter** allows you to filter packets as equal, less than, greater than and not equal to a range of packets of 52~16384 bytes.

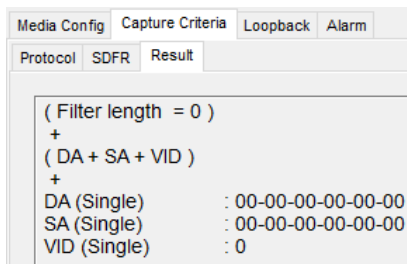
Set the maximum number of captured packets (20-16384) in the "Capture Packet Number" if the Capture Forward setting is "Block".



**SDFR** (Self-Discover Filtering Rules).

If you closed the **Capture all packets** function in the **Protocol** interface, the **SDFR** interface will be available for settings.

The SDFR interface allows you to choose a single or multiple criteria for capturing packets.

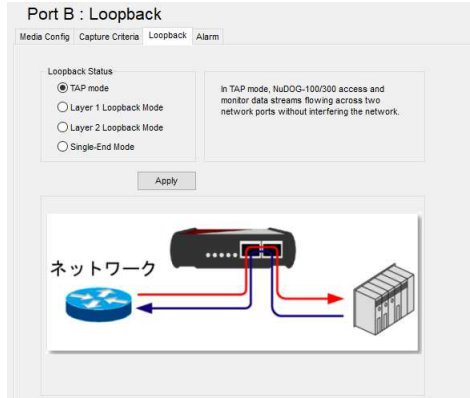


It shows the result of capture criteria by user's selection.

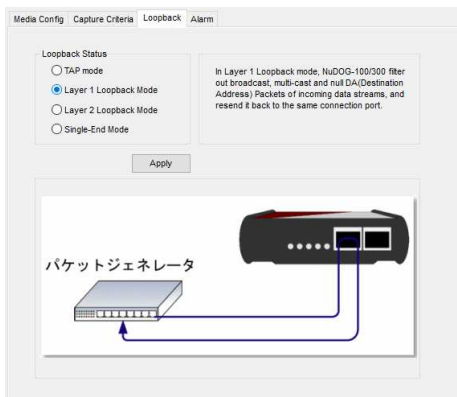
\*Note: Packet loss is possible if the captured traffic is higher than traffic allowed for USB port.

\*Note: For SDFR items, you can tick the items that act as criteria. When you tick one option, some other options will be gray. It means the option what you tick has covered the range of those options in gray.

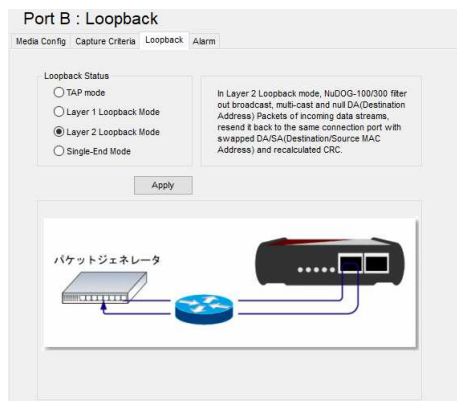
Port AB Loopback



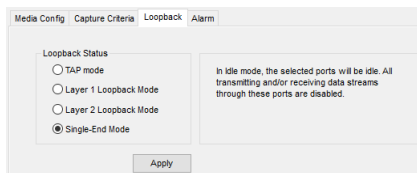
If you choose the **TAP mode** on **Loopback** interface, the LE-590TX, operates like a hardware device that provides a method to access and monitor the data streams flowing across two network ports without intruding the running network.



If you choose the **Layer 1 Loopback Mode** on **Loopback** interface, the LE-590TX, filters out broadcast, multicast and null DA (destination address) packets of incoming data streams, and then resends them back to the same connected port.



If you choose the **Layer 2 Loopback Mode** on **Loopback** interface, the LE-590TX, filters out broadcast, multicast and null DA (destination address) packets of incoming data streams, and then resends them back to the same connected port with swapped DA / SA (destination / source MAC address) and recalculated CRC.



If you choose the **Single-End Mode** on **Loopback** interface, the selected ports are idle that all transmitting and/or receiving data streams via these ports are disabled.



**Port AB Alarm**

Media Config | Capture Criteria | Loopback | Alarm

Alarm Setup

Enable	Item (packet per Second)	Threshold	
<input type="checkbox"/>	Rx Packet	0	▲▼
<input type="checkbox"/>	Rate (Mbps)	0	▲▼
<input type="checkbox"/>	CRC Error	0	▲▼
<input type="checkbox"/>	Alignment Error	0	▲▼
<input type="checkbox"/>	Dribble bit	0	▲▼
<input type="checkbox"/>	Broadcast	0	▲▼
<input type="checkbox"/>	ICMP	0	▲▼
<input checked="" type="checkbox"/>	ARP	0	▲▼
<input type="checkbox"/>	Pause Packet	0	▲▼
<input type="checkbox"/>	SDFR-DA	0	▲▼
<input type="checkbox"/>	SDFR-SA	0	▲▼
<input type="checkbox"/>	SDFR-VID	0	▲▼
<input type="checkbox"/>	SDFR-DIP	0	▲▼
<input type="checkbox"/>	SDFR-SIP	0	▲▼
<input type="checkbox"/>	SDFR-DPort	0	▲▼


Apply

Media AB

In the Alarm interface, you can choose the alarm threshold to be displayed on the alarm report. When the check box is ticked as , these alarm criteria are enabled if the network event of the running network is beyond the threshold.

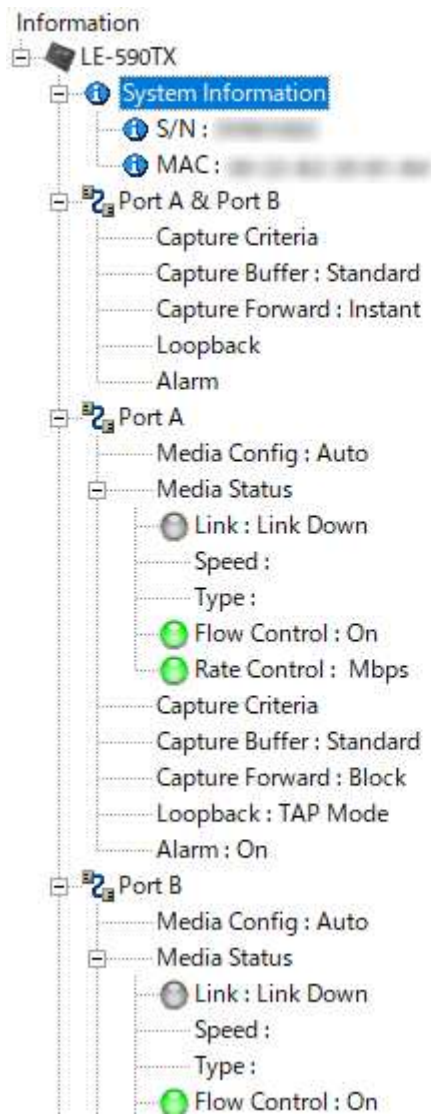
Click ▲ or ▼ of  button to increase or decrease the value of threshold as the limit to starting the alarm report.

When the network traffic flows through this device and the network event triggers the alarm threshold, the alarm condition is registered in alarm report.

The Settings of  will configure the Port A and Port B at same time with the same packets capture criteria. If you want to configure Port A and Port B at different packets capture criteria, please choose the

 and  to configure separately with different packets capture criteria.

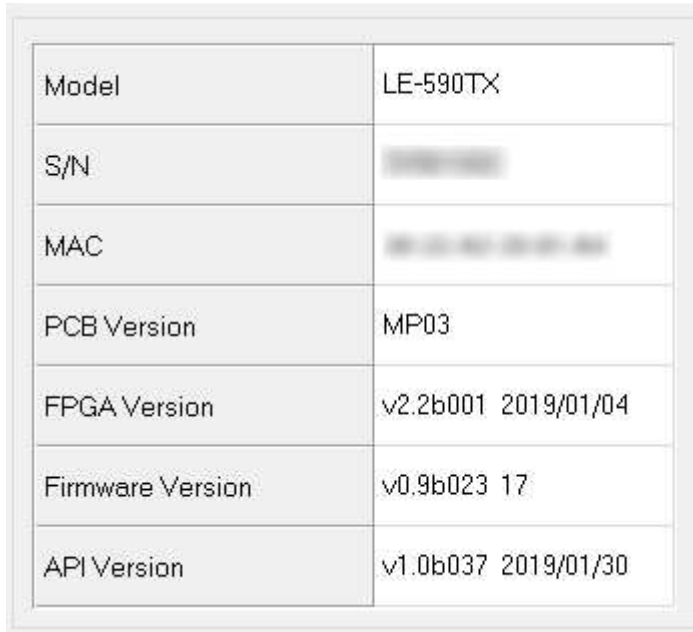
## 2.3. System Info/Configuration List



The **System Info/Configuration List** allows you to view system information and making port configurations.

### 2.3.1. System Information

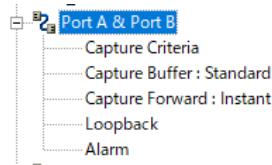
By clicking the **System Information** on the **System Info/Configuration List**, the **System Information** screen will be shown on the **Main Display Screen** located on the right side of LE590-TAP' main window.



Model	LE-590TX
S/N	XXXXXXXXXX
MAC	XX:XX:XX:XX:XX:XX
PCB Version	MP03
FPGA Version	v2.2b001 2019/01/04
Firmware Version	v0.9b023 17
API Version	v1.0b037 2019/01/30



2.3.2. Port A & Port B



**Media Type, Capture Criteria, Loopback and Alarm**

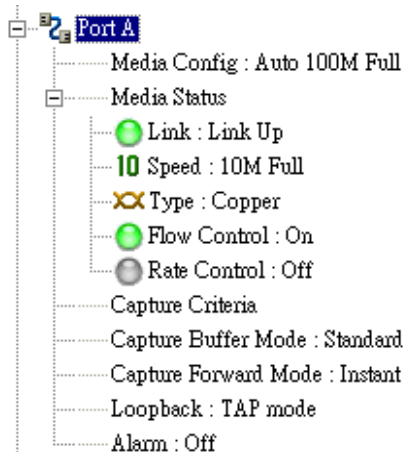
By clicking the **Port A & Port B** on the **System Info/Configuration List**, the **Port A & Port B Configuration** screen will be shown on the **Main Display Screen** located on the right side of LE590-TAP' main window, allowing you to make settings for LE-590TX ports.

Those settings include the **Media Type, Capture Criteria, Loopback** and **Alarm** related to



For more detail description about **Port A & Port B Configuration**, please refer to **2.2.5. Port AB**.

2.3.3. Port A / Port B

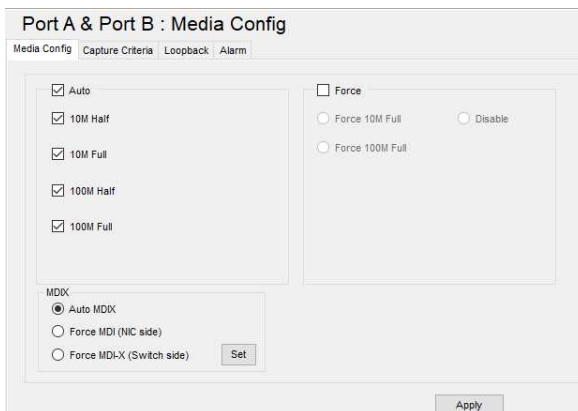


2.3.3.1. Media Type, Capture Criteria, Loopback and Alarm

By clicking the **Port A** or **Port B** on the **System Info/Configuration List**, the **Port A** or **Port B Configuration** screen will be shown on the **Main Display Screen** located on the right side of LE590-TAP' main window, allowing you to make settings for LE-590TX ports.

Those settings include the **Media Type**, **Capture Criteria**, **Loopback** and **Alarm** related to **Media A** and **Media B**. Besides, the change on the status of **Media Type**, **Capture Criteria**, **Loopback** and **Alarm** are also shown in the **System Info/Configuration**.

For more detail description about **Port A** or **Port B Configuration**, please refer to **2.2.5. Port AB**.

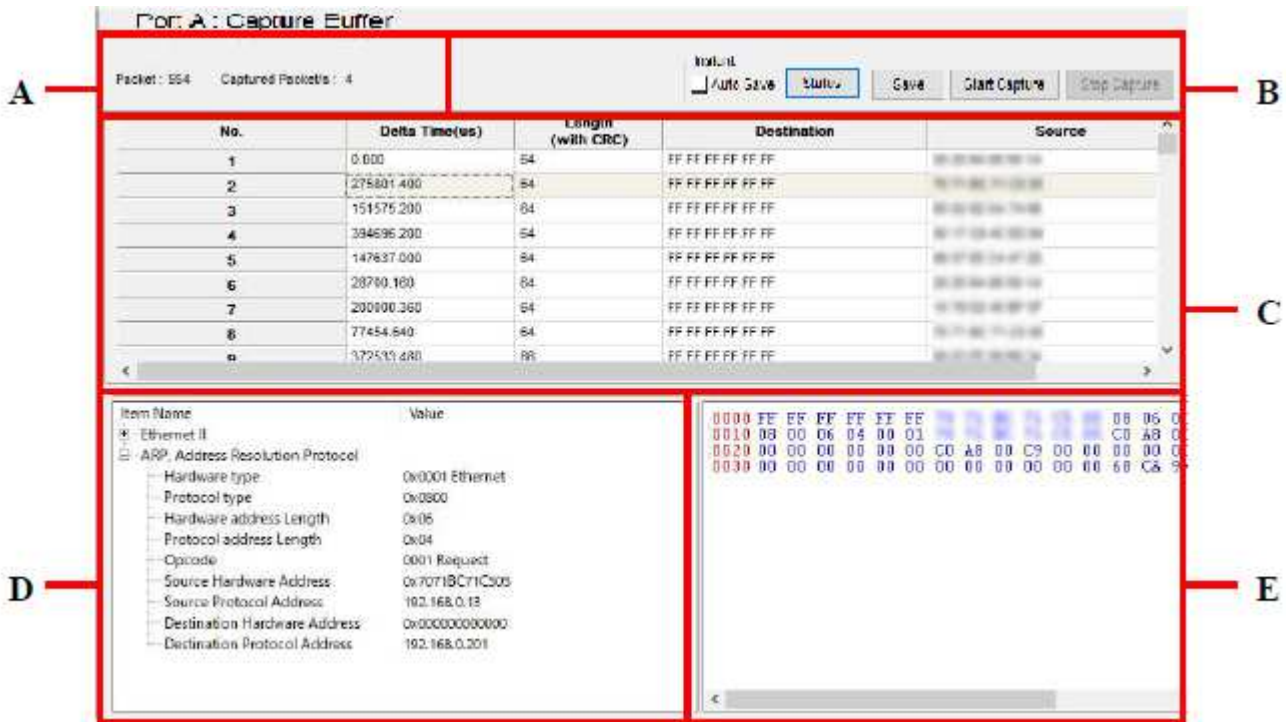


2.3.3.2. Media Status

By clicking the **Media Status** on the **System Info/Configuration List**, it will show the status of **Link**, **Speed**, **Mode**, **Type**, **Flow Control** and **Rate Control**.

Link	Link Up
Speed	100M
Mode	Full-duplex
Type	Copper
Flow Control	On
Rate Control	100.00 Mbps

2.3.3.3. Capture Buffer Mode and Capture Forward Mode




**A:** This field shows the number of packets and number of captured packets.

**B:** If you set **Capture Forward Mode** under **Instant** mode, this field will be available for settings:

- You can enable **Auto Save** by clicking the check box, and see the status of captured packets on a designated folder by clicking **Status** button. Or you can save the instant status by clicking the **Save** button.
- You can also initiate the packets capture operation by clicking **Start Capture** button, and stop the packets capture operation by clicking the **Stop Capture** button.

**C:** In this field, you can check the status of each captured packet based on the order of packet (**No.**), **Delta Time(us)**, **Length(with CRC)**, **Destination/Source** MAC address, **VLAN**, **Protocol** and **Destination/Source IP**.

**D:** This field shows the packet/frame view items, such as Ethernet II. User can click  to expend the sub-tree on the **Item Name** column, and see the value of network frame on the **Value** column.

**E:** Shows the data based on the field **C**.

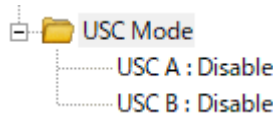
\* Both “Instant” and “Block” setting includes FCS in the captured data.

\* “Block” setting cannot save captured data automatically.

\* While capturing in the port A or port B, do not capture in the port A & port B.

\* While capturing in the port A & port B, do not capture in the port A or port B.

2.3.4. Report: USC A/B





The **Report** shows the **Rule** chosen on the **Stream Counter Mode** settings for each **USC A** and **USC B**. Please refer to the **2.2.3. USC A & USC B** for more details.



2.4. Control Buttons/ Operating Status Icon

2.4.1. For TAP mode



The **Control Buttons** allow you to start/stop tasks, and the **Operating Status Icon** indicates if there's a task running.



Control Buttons	
	Start task
	Stop task



Operating Status Icon	
	Not operating
	Operating

2.4.2. For Layer 1/Layer 2 Loopback mode and Single-End mode



The **Control Buttons** allow you to start/stop tasks, and the **Operating Status Icon** indicates if there's a task running.

Control Buttons	
	Start task
	Stop task

Operating Status Icon	
	Not operating
	Operating

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