

# PacketCheck<sup>TM</sup> is licensed either through <u>software licensing</u> or <u>USB hardware dongle</u>. Follow the procedures below as per your purchase order.

#### **System Requirements**

- Windows® 10 and above Operating System (64 bit Only).
- Core i3 to i7 (or equivalent), 4 GB Memory, 2 x NIC cards, and USB Ports.
- PCs which include GL hardware/software require Intel or AMD processors for compliance.

## Note:

• Ensure that the **Anti-Virus** and **Windows Firewall** programs are disabled or configure PacketCheck<sup>™</sup> Application as a trusted. This will help ensure uninterrupted functionality by avoiding any disruptions from security measures.

#### Software Based Licensing (for evaluation only)

- In case of software-based licensing, the software executables, license installer, and documents can be downloaded from the software licensing web portal (refer to email notification from GL Communications).
- Follow the instructions in the <u>https://www.gl.com/ses/download/GL-Software-License-Evaluation-Instructions.pdf</u> to install software license.
- To verify that the purchased licenses are installed correctly, open any web browser from the system on which the software license is installed and type the URL "<u>http://localhost:1947/\_int\_/products.html</u>". Click on Features and confirm that the following Product licenses are listed
  - ETH100 (PacketCheck)

#### **USB Dongle Based Licensing**

- If the software is licensed through hardware USB dongle, the shipment will contain a **USB Installation Stick** (pen drive) with necessary software executables, license installer, and documents along with USB Dongle.
- Plug-in the dongle to the USB port of the computer.
- Plug-in the USB Installation Stick (pen drive) to the PC.
- Navigate to \GL-Dongle-LicenseInstaller folder in installation USB stick and execute GLLdkDongleLicenseInstaller\_x64.exe. Follow the on-screen instructions to complete the installation.
- A **Red** light should appear on the dongle indicating that it is functioning correctly.
- User can verify if the required licenses are installed. Navigate to C:\Program Files\GL Communications Inc\GLDONGLE directory, execute appl\_list.exe and confirm that the following licenses are listed.
  - ➢ ETH100 (PacketCheck)
- For any issues during the installation, follow hardware dongle licensing procedure mentioned in the <a href="https://www.gl.com/Brochures/Installation-Instructions-for-Dongle-Programs.pdf">https://www.gl.com/Brochures/Installation-Instructions-for-Dongle-Programs.pdf</a>.

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#### Warranty License Installer

Follow the below steps to install the Warranty license.

• Navigate to root directory in **USB installation stick** (pen drive) *to* \*Warranty\_LicenseInstaller* folder, execute *GLSupportWarrantyLicenseInstaller.exe*. Follow the onscreen instructions and complete the installation.

Name	Open
CI Support Warrant disconcelentaller ave	🗣 Run as administrator
	Troubleshoot compatibility
s msvclv.csv	Pin to Start
	<ul> <li>Move to OneDrive</li> </ul>



• To confirm that warranty is installed properly, double-click on Warranty Application List icon **the second secon** 

a Support Warranty Licensed Application Version	s	_	×
Licensed Device Types (use selection)	Licensed Features (click on a header to sort) HW Type Serial Num/Key ID FID FID Description	Version	^
All Export Delete Sel	Refresh Exit	22.0.1	

• In the Version column, verify the warranty expiry date to be as expected (depending on the support warranty purchased).

# Note:

• Any latest software updates after warranty period will not be available until warranty licenses are renewed.

#### **Software Installation**

• Navigate to folder \ETH100-ETH200-PacketCheck\PacketCheck-Software-verXX in installation USB stick. Right-click PacketCheckx64.exe (for 64 -bit OS) and select Run as Administrator.

길 « ETH100-ETH200-Pack	etCheck 🕨 PacketCheck-Software-ver	
Name	Туре	Size
🔄 PacketCheck.exe	Application	1,82,556 KB
S PacketCheckx64.exe	Open	1,92,514 KB
	Run as administrator	
	Troubleshoot compatibility	



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### **Invoking Application**

• It is recommended to reboot the system after the software installation.



- Double click on PacketCheck<sup>TM</sup> shortcut icon
  - created on the desktop. The application should invoke without any errors.
- The **PacketCheck Initial config** window appears as shown below.

PacketCheck -	Initial config	_	×
I/F Selection	Mode Selection		
Qualcomm Atheros	Ar81xx series PCI-E Ethernet Controller [192.168.1.31]		•
	Start Packet Check		
Name	\Device\NPF_{F159D0F7-EC8E-44F0-910F-BAADB5773137}		
Description	Qualcomm Atheros Ar81xx series PCI-E Ethernet Controller		
MAC Address	fc-aa-14-92-aa-d7		
IP Address	192.168.1.31		
Link Type	Ethernet (802.3)		 
Current Link Speed	1000 Mbps		 
Max Payload Size	1500 bytes		 
Media State	Connected		

- It is necessary to perform initial configuration to get started with the application.
- Under Mode Selection, select Normal Mode option and click on Start PacketCheck to get to the main PacketCheck GUI as shown below.

PacketCheck -	Initial config	-	×
	Mode Selection		
I/F Selection			
Qualcomm Atheros	Ar81xx series PCI-E Ethernet Controller [192.168.1.31]		-
	Start Packet Check		
Name	\Device\NPF_{F159D0F7-EC8E-44F0-910F-BAADB5773137}		
Description	Qualcomm Atheros Ar81xx series PCI-E Ethernet Controller		
MAC Address	fc-aa-14-92-aa-d7		
IP Address	192.168.1.31		
Link Type	Ethernet (802.3)		
Current Link Speed	1000 Mbps		
Max Payload Size	1500 bytes		
Media State	Connected		



View Report Windows Help	mode - Untitled									
Normal Configuration										
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			NIC Reset	Uther Reset						
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atics   infl  infl infl infl infl infl infl infl infl		Default Steam Statistics     Total Frames     Rote     Non Test Frames     UDP Frames     UDP Frames     UDP Frames     UDP Frames     UDMP Frames     UDMP Frames     UDMP Frames     Differ L4 Protocol Frames     APP Response Frames     APP Response Frames     Unicat Frames     Unicat Frames     Unicat Frames     Status     265 ST1 Leight Frames     26, 275 Leight Frames     1024, 1518 Leight Frames     1024	Nic Frest         PacketCheck T           PacketCheck T         0.00 bps           0.00 bps         NAA           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0	Under Hreier IX PacketCheck Rx 0,00 bps NA+ 0 0 0 0 0 0 0 0 0 0 0 0 0	NIC Tx 0 0.000 bps NA- 0 0 0 0 0 0 0 0 0 0 0 0 0	NIC Rx 0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0	Other Rx 0 0.00 bps NA- 0 0 0 0 0 0 0 0 0 0 0 0 0	Cunudative Statistics Total Frames Rate Not Trans Frames Not Trans Frames UDP Frames TCP Frames ICMP Frames Other L4 Protocol Frames Broadcast Frames Multicast Frames Multicast Frames Bit Length Frames Bit Length Frames Status Length Frames > 1518 Length Frames	Tx           0         00bps           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0	Rx           0           0.00 bp           0
atios Infl Infl Infl Infl Infl Infl Infl Infl		Default Stream Statics     Total Frames     Rate     Non Test Frames     IP Frames     UDP Frame     UDP Frames     UDP Frame     UDP Fram     UDP Frame     UDP     UDP     UDP     UDP     UDP     UDP	PacketCheck T           000 bps           4Ac           0	Under Heiser Tx PacketCheck Rx 0.00 bps NA- 0 0 0 0 0 0 0 0 0 0 0 0 0	NIC Tx 0 000bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NIC Rx 0 000 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Dther Rx 0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Currulative Statistics Total Frames IP Frames UDP Frames UDP Frames ICMP Frames ICMP Frames ICMP Frames ICMP Frames Other L4 Protocel Frames APP Request Frames APP Request Frames Whickast Frames Multicast Frames 64 Length Frames 65, 127 Length Frames 512, 1023 Length Frames > 1518 Length Frames	Tx           0.00 bps           0	Rx           0         0.00 bp           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0
tics in Mame i		Default Stream Statics     Total Frames     Rate     Non Test Frames     Rate     Non Test Frames     UP Frames     UP Frames     UDP Fr	Nic Frest         PacketCheck T           PacketCheck T         0           0.00 bps         NA           0         0      0	Under Heeet IX PacketCheck Rx 0 000 bps NAx 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NIC Tx 0 0.000 bps NA- 0 0 0 0 0 0 0 0 0 0 0 0 0	NIC Rx 0 0.000 bps -VA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Other Rx 0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0	Cunudative Statistics Total Frames Rate Non Test Frames IPD Forces TCP Frames ICMP Frames ICMP Frames ICMP Frames Other L4 Protocol Frames Other L4 Protocol Frames APP Request Frames Muticast Frames Muticast Frames Muticast Frames Muticast Frames 51,227 Length Frames 51,21 Length Frames 122,255 Length Frames 122,251 Length Frames 122,251 Length Frames	Tx           0         00bps           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0	Bx           0         000 bp           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0
inics in Mame inics in Mame inics in Mame inic All Frames ID Funnes ID Games Funnes Funnes Funnes Funnes Funnes Funnes Funnes Funnes ID Game		Default Stream Statutics           Default Stream Statutics           Rote           Non Test Frames           IP Frames           UDP Frames           TOMP Frames           UDP Frames           Unicat Frames           Unicat Frames           Status           Status           UDP Frames           122 Length Frames           123 ZES Length Frames           124 ZST Length Frames           126 ZST Length Frames           127 LOS Length Frames           128 ZST Length Frames           120 ZS Length Frames           120 ZST Length Frames           120 Z	PacketCheck T           000 bps           4Max           0      0	Under Heiser Tx PacketCheck Rx 0.00 bps NA- 0 0 0 0 0 0 0 0 0 0 0 0 0	NIC Tx 0 0.000 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0	NIC Rx 0 000 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Other Rx           0           0.00 bps           -NA-           0	Cunudative Statistics Tota Frames IP Frames IDP Frames UDP Frames ICMP Frames ICMP Frames ICMP Frames Other L4 Protocol Frames APP Request Frames Other Frames Biotecher Frames 64 Length Frames 65 L27 Length Frames 55 L27 Length Frames 55 L27 Length Frames 53 L2 Length Frames > 1518 Length Frames	Tx           0.00 bps           0	Rx           0         0.00 bp           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0
ation Mame Anno Anno Anno Anno Anno Anno Anno Ann		Default Stream Statics           Default Stream Statics           Role           Non Test Frames           IP Frames           UDP Frames           UDP Frames           UDM Frames           IDM Frames           IDM Frames           IDM Frames           IDM Frames           IDM Frames           IDM Frames           Differ Frames           Broadcast Frames           Uncest Frames           IDM Frames           Status           255 Langth Frames           1024_USB Length Frames           1024_USB Length Frames           1024_USB Length Frames           1024_USB Length Frames           Status           Duation           Fie Recording Status	NIC Freed PacketCheck T 0 000 bps NAA 0 000 bps 0 000 bps 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Unter Heet Ix PacketCheek Bx 0.00 bps NA- 0 0 0 0 0 0 0 0 0 0 0 0 0	NIC Tx 0 0.00 bps NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NIC Rx 0 0.000 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Other Rx 0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0	Cunulative Statistics Total Frames Rate Non Test Frames IP Frames UCP Frames ICMP Frames ICMP Frames ICMP Frames Other L4 Protocol Frames APR Request Frames APR Response Frames Muticast Frames Muticast Frames Muticast Frames 65, 122 Length Frames 122, 255 Length Frames 122, 255 Length Frames 124, 1518 Length Frames > 1518 Length Frames	Τκ           0.00 bps           0	Bx           0         000 bp           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0
		Default Stream Statutics           Total Frames           Rote           Non Test Frames           UP Frames           UD Frames           TOT In Transes           UD Frames           Unicat Frames           Status           Status           Duration           File Recording Status	NIC Free           0           000 bps           NA           000 bps           NA           0           000 bps           NA           000 bps           NA           000 bps           00 bps	Under Hreier Ix PacketCheck Rx 0.00 bps NA- 0 0 0 0 0 0 0 0 0 0 0 0 0	NIC Tx 0 0.000 bps NA- 0 0 0 0 0 0 0 0 0 0 0 0 0	NIC Bx 0 0.000 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Other Rx 0 0 0 0 0 0 0 0 0 0 0 0 0	Cundative Statistics Tota Frames Rate Prames IDP Frames IDP Frames IDMP Frames IDMP Frames IDMP Frames Other L4 Protocol Frames Other L4 Protocol Frames Other Frames Broadcast Frames Broadcast Frames 64 Length Frames 65 L27 Length Frames 51 22 Longth Frames	Tx           0         000 bps           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0	Bx 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
atics		Default Stream Statics           Default Stream Statics           Role           Non Test Frames           IP Frames           UDP Frames           Broadcast Frames           Multicast Frames           Status           Status           Status           Status           Status           Davison	NIC Freed PacketCheck T 0 000bps NAA 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Unter Heet Tx PacketCheck Bx 0.00 bps NA- 0 0 0 0 0 0 0 0 0 0 0 0 0	NIC Tx 0 0.00 bps NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NIC Rx 0 0.00 bps NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Other Rx 0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Currulative Statistics Total France Tata Non Test Frances IUP Frances UDP Frances UDP Frances IDMP Frances Dthe L4 Protocol Frances Other L4 Protocol Frances Other L4 Protocol Frances Other Frances Frances Frances Frances Frances Frances Studies Frances 64 Length Frances 65 L27 Longth Frances 128, 255 Length Frances 128, 255 Length Frances 128, 1518 Length Frances 128, 1518 Length Frances	Τκ           0           0.00 bps           0	Fix           0.000bp           0.000bp           0
atics		Default Stream Statutics           Default Stream Statutics           Rote           Rote           Non Test Frames           I/P Frames           UOP Frames           TCMP Frames           IGMP Frames           IGMP Frames           Other L4 Protocol Frames           APP Request Frames           Bookstand Frames           Bookstand Frames           Monicast Frames           Municast Frames           256, 212 Length Frames           128, 255 Length Frames           124, 1518 Length Frames           124, 1518 Length Frames           124, 1518 Length Frames           1024, 1518 Length Frames           Status           Duration           File Recording Status	NIC Freed	Unter Heet IX PacketCheck Rx 0.00 bps NA- 0 0 0 0 0 0 0 0 0 0 0 0 0	NIC Tx 0 0.00 bps NA- 0 0 0 0 0 0 0 0 0 0 0 0 0	NIC Rx 0 0.000 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Other Rx 0 000 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cundative Statistics Tota Frances Rate The Frances IDP Frances UDP Frances UDP Frances IDMP Frances UDM Frances Uther L4 Protocol Frances Other L4 Protocol Frances APP Request Frances Multicaat Frances Multicaat Frances Multicaat Frances Statistics Stat	Tx           0           000 bps           0	Bx           0           000 br           0
teles		Default Stream Statics           Default Stream Statics           Role           Non Test Frames           I/P Frames           UDP Frames           UDP Frames           UDP Frames           UDP Frames           UDP Frames           UDHP Frames           UDHP Frames           UDHP Frames           Dher Frames           Broadcast Frames           Unicast Frames           Status	NIC Freed PacketCheck T 0 000bps NA. 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Under Heiser Tx PacketCheck Rx 0.00 bps NA- 0 0 0 0 0 0 0 0 0 0 0 0 0	NIC Tx 0.00 bps +NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NIC Rx 0 0.00 bps NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Other Bx 0 0.00 bps NA- 0 0 0 0 0 0 0 0 0 0 0 0 0	Currulative Statistics Toda Fannes Non Test Frames IIP Frames UDP Frames ICMP Frames ICMP Frames ICMP Frames ICMP Frames Other L4 Protocol Frames Other L4 Protocol Frames Other Frames Which Frames Multicast Frames 64 Length Frames 65,127 Length Frames 55,27 Length Frames 512,21 Length Frames 512,215 Length Frames 512,151 Length Frames 512,151 Length Frames	Τκ           0         0.000 bps         0           0         0         0         0           0         0         0         0         0           0 <td< td=""><td>Fix           000bj           000           000           000           000           000           000           000           000           0000           0000           0000           0000           0000           0000           0000           0000           0000           0000           0000           0000           00000           00000           000000           000000           00000000           000000000000000000000000000000000000</td></td<>	Fix           000bj           000           000           000           000           000           000           000           000           0000           0000           0000           0000           0000           0000           0000           0000           0000           0000           0000           0000           00000           00000           000000           000000           00000000           000000000000000000000000000000000000
		Default Streem Statics           Default Streem Statics           Role           Non Test Frames           IP Frames           UP Frames           UP Frames           UMP Frames           Statistics           APP Reports Frames           UMUE at Frames           Multicat Frames           51,27 Length Frames           52,55 Length Frames           52,25 Length Frames           51,27 Length Frames           52,21,203 Length Frames           52,21,203 Length Frames           53,21,203 Length Frames           54,21,203 Length Frames           55,204,203 Length Frames           56,21,203 Length Frames           57,21,203 Length Frames           57,21,2	NIC Freed	Unter Hreet IX PacketCheck Rx 0.00 bps NA- 0 0 0 0 0 0 0 0 0 0 0 0 0	NIC Tx 0 0.00 bps NA- 0 0 0 0 0 0 0 0 0 0 0 0 0	NIC Rx 0 0.00 bps NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Other Rx 0 0.00 bps NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cundative Statistics Tota Frances Rate Net Frances UDP Frances UDP Frances UDP Frances ICMP Frances ICMP Frances Other L4 Protocol Frances Other L4 Protocol Frances APP Request Frances Multicaat Frances Multicaat Frances Statistics	Tx           0           000 bps           0	Bx           0

- This completes the successful installation of PacketCheck<sup>™</sup> application.
- For quick functional verification, refer to **PacketCheck-Quick-Verification-Guide**.