

# MAPS<sup>™</sup> SIP HD (PKS120, PKS109) Quick Install Guide

If you have purchased **MAPS<sup>TM</sup> SIP HD** product, you will receive a network appliance with all the necessary PC hardware interfaces, including Regular NIC cards, Operating System (Windows<sup>®</sup> 64-bit Only), required MAPS<sup>TM</sup> applications, GL's High Density NICs (4x 1 Gbps), and all required licenses pre-installed. And therefore, you will need to only plug-in the monitor, and connect the network appliance to the power outlet

Note:

PCs which include GL hardware/software require Intel or AMD processors for compliance.

Then connect the USB Hardware Dongle you have received with the shipment and proceed to verification steps.

#### Software and License Installation

*Note*: NOW PLUG-IN the USB Hardware Dongle to the PC to the USB port of your computer. A red light should appear on the dongle indicating that the device is functioning correctly and ready to use. Ensure the warranty licenses are installed for invoking the application.

- Ensure that the MAPS<sup>™</sup> SIP application and the below listed licenses are installed on the network appliance. To verify if the purchased 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:
  - ➢ PKS120 (MAPS™ SIP)
  - PKS102 (RTP Traffic)
  - > PKS109 (HD RTP Traffic) \*\*Note2

**\*\***Note2: Additional licenses may be required for optional codecs and other traffic options. Please verify that all licenses purchased are displayed using the **appl\_list.exe** utility.



• To confirm that warranty is installed properly, double-click on **Warranty Application List** icon <sup>Application</sup>. This will display the list of warranty applications which are purchased.

icensed Devic	e Types (use selec	tion)		atures (click on a he	eader to s	ort)	
software			HW Type	Serial Num/Key ID	FID	FID Description	Version
			software	x7D0Ex xxx	156	PKS109 MAPS SIP HD	20.8.1
			software	x7C55xxxx	156	PKS109 MAPS SIP HD	20.8.1
			software	x7AD(XXXX	156	PKS 109 MAPS SIP HD	20.8.1
			software	x7A55xxxx	156	PKS109 MAPS SIP HD	20.8.1
			software	x781CXXXX	156	PKS 109 MAPS SIP HD	20.8.1
			software	x76EFXXXX	156	PKS109 MAPS SIP HD	20.8.1
			software	x70BCXXXX	156	PKS 109 MAPS SIP HD	20.8.1
			software	x6F20XXXX	156	PKS109 MAPS SIP HD	20.8.1
			software	x6B7CXXXX	156	PKS 109 MAPS SIP HD	20.8.1
All	Export	Delete Sel	Refresh	Exit			

• Users can check the Warranty expiry date in the **Version** column that is **20.8.1** (i.e. 2020 August 1<sup>st</sup>), and user can verify the 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.

- Right-click on MAPS-SIP HD short-cut icon created on the desktop and select '**Run as Administrator**'. The application must invoke without any errors.
- This completes the installation process. If you had problems with installation so far, refer to Troubleshoot section explained in this document.
- For a quick self-test procedure, refer to the steps explained in the MAPS-SIP HD-Quick-Verification-Guide document.

(V) 301-670-4784 (F) 301-670-9187 Web Page: http://www.gl.com/ E-Mail Address: info@gl.com



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#### Troubleshoot

Check manually the LEDs on GL's HD card. Blinking LEDs indicate traffic activity, and Green LEDs indicate just the link up status

> Click NT 3G Tools icon from the desktop and invoke NT 3G Tools console window. Type

each SFP Type connection, and the auto

simulation.

P - Port number

A - Adapter number

Type - Connection type

traffic statistics on each port after the bulk call

Link - Link speed (Down indicates cable is

unplugged or SFP module is incompatible)



- "Security Error: Application is not licensed" error indicates a problem with either your dongle or license file.
  - ≻ First verify that the dongle is plugged in and the red light is ON
  - ≻ Navigate to C:\Program Files\GL Communications Inc\GLDONGLE
  - Run haspinfohl.exe. Verify that Status is OK and make a note of the Serial #. ⋟
  - $\triangleright$ Run *appl\_list.exe*. Verify that there is a line in the table reading *PKS120* MAPS<sup>TM</sup> SIP, *PKS109* MAPS<sup>TM</sup> SIP HD with the serial number you noted above.
  - If the dongle does not appear in *haspinfohl.exe*, verify that it appears as a USB device in the Windows Device Manager.  $\geq$ If it does not appear even in the device manager, remove the dongle and plug it into a different USB port, preferably one directly on the motherboard.
- If the SIP/RTP Core console does not invoke with the MAPS<sup>™</sup> TestBed start-up, check for the following:
  - Verify that the IP Address in the User Agent Profiles (UserAgent\_Profiles) are configured with the proper IP address of  $\triangleright$ the 2 Regular NICs. These should free IP address within the same subnet, and when connected to a switch, no IP Conflicts should be reported. If the system is connected to a LAN, contact your system administrator to avoid IP address conflicts before you perform the steps below.
  - $\geq$ RTP Soft Core licenses may not be installed for the dongle used. Run *appl\_list.exe* available in the C:\Program Files\GL Communications Inc/GLDONGLE directory. Verify that PKS102 RTP Soft Core and PKS109 MAPS<sup>TM</sup> SIP HD are listed.



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- If the Tx and Rx traffic statistics on each port after the bulk call simulation is showing incorrectly, click **NT 3G Tools** icon from the desktop and invoke **NT 3G Tools** console window.
  - Type the commands as shown in the screen below and from the C:\Program Files\Napatech3\config directory, to open NTservice.ini file. Press Enter.

NT 3G Tools	-		×
Napatech 3G Software Tools			^
Microsoft Windows [Version 6.3.9600] (c) 2013 Microsoft Corporation, All rights reserved.			
C:\Program Files\Napatech3\bin>cd			
C:\Program Files\Napatech3>cd config			
C:\Program Files\Napatech3\config>NTservice.ini			
			$\checkmark$

Make sure that **Profile** parameter in the file is set to '**TrafficGen**'. If not make this change, save the file in the same location (you will need Administrator priviledges to give write permission to this folder).

	NTService - Notepad – 🗆 🗙
File Edit Format View Help	
[Adapter0] AdapterType = NT4E DiscardSize = 16 HostBufferHandlerAffinity = -2 HostBufferPollInterval = default	# NT4E - NT20E - NT4E_STD - NTPORT4E - NT20E2 - NT40E2_1 # 16 63 # -2 7 # default* - 100 - 250 - 500 - 1000
HostBufferSegmentSizeRx = default HostBufferSegmentTimeOut = default HostBuffersRx = [4,16,0] HostBuffersTx = [4,16,0] IfgMode = NS	<pre># default* - 1* - 2 - 4 # default* - 100 - 250 - 500 - 1000 - 10000 - 25000 - 50 # [x1, x2, 0], # [x1, x2, 0], # NS* - BYTE</pre>
MaxFrameSize = 9018	# 1518 10000
OnBoardMemorySplit = Even PacketDescriptor = NT	# Even* - Proportional # PCAP - NT* - Ext7 - Ext8 - Ext9
Profile = TrafficGen SofLinkSpeed = 1G	# None* - Capture - Inline - CaptureReplay - TrafficGen # 10M - 100M - 1G - 10G
TimeSyncConnectorExt1 = NttsIn	<pre># None - NttsIn* - PpsIn - NttsOut - PpsOut - RepeatInt1</pre>
TimeSyncConnectorInt1 = None	<pre># None* - NttsIn - PpsIn - NttsOut - PpsOut - RepeatExt1</pre>

• If you cannot resolve the issues, please contact the appointed technical support person. If you do not know the technical support contact, please reach us at <u>info@gl.com</u>.

