

For the purchased **IPNetSimTM 10G (IPN504)** product, you will receive a 1U rackmount network appliance with all the necessary PC interface, Operating System, and IPNetSimTM device. The appliance also includes required IPNetSimTM software, and licenses pre-installed. And therefore, you will need to only plug-in the monitor, keyboard, mouse, connect the network appliance to the power outlet and then power on the appliance.

About IPNetSim[™] 10G

IPNetSimTM (**IPN504**) has two 10G optical ports and two 1G (Electrical/ Optical) ports w/ Embedded Single Board Computer (SBC). SBC Specs: 19" 1U Rackmount Enclosure, Intel Atom CPU, 4GB RAM, Windows 7 (32 bit), MSATA SSD, 2 USB Ports.



Software Upgrade

- Connect IPNetSim[™] hardware appliance to power adapter and connect the power adapter to the AC power outlet.
- Switch ON the IPNetSim[™] hardware appliance.
- Check that the CPU LED is glowing on the Hardware appliance, indicating that power supply is correct
- Connect the Monitor to the IPNetSim[™] appliance after powering on the unit.
- Plug-in the USB installation stick (pen drive) provided with the shipment package by GL Communications.
- From the USB installation stick (pen drive), navigate to folder \IPN504-Rack-IPNetSim\IPN504-Rack-IPNetSimSoftware-verXX. Right-click on **IPNetSim10Gx86.exe**, and select "Run as administrator".

Note: DO NOT execute **IPNetSim10Gx64.exe** as IPNetSim[™] rack hardware appliance is on Windows 7 32-bit OS.

| > | IPN504-IPNetSim-10G-Rack > IPNetSim10G-ver7.7.19 | | | | | | | |
|---|--|------------------------|------------------|--|--|--|--|--|
| | Name | ^ | Date modified | | | | | |
| | SIPNetSim10Gx8 | 5.exe | 21-07-2017 20:18 | | | | | |
| | | Open | | | | | | |
| | | ݼ Run as administrator | | | | | | |

• Follow the onscreen instructions to complete the software installation.

<u>Note:</u> After IPNetSimTM software installation, user may be prompted for additional Winpcap installation. Please make sure to install it as well.



Quick Checkout

- Double click on the IPNetSim10G shortcut icon
 errors and display the screen as shown below.
 - **Note:** The application may take some time to get started due to hardware and software initializations.

created on the desktop and the application should invoke without any

| | Interface (Local) | | Port Statistics | | | | |
|---|---|---|-----------------|-----------------------------|-------------------------------|-----------------|--------------|
| Interface | Port Selection Port 1 | Tx Pause Frame | ^ | Port Selection Port 1 | ✓ Reset | | |
| Port 2 | Details | Settings | | Description Total Frames | Tx | Rx | |
| Interface Statistics | Haroware MAC address | Interface Type Optical V | | Valid Frames | | 0 | |
| Stream Config | | Disable Auto Negotiation | = | Number of Bytes | | 0 | |
| Stream Statistics | Status | | | Link Utilisation(%) | | 0.000 | 0.0 |
| Graph | Link 👄 | Link Speed 1000Mbps 💟 | | Erame Rate(Mbps) | | 0.000 | 0. |
| Reports | Interface Turne Optical | Apply | | Non Test Frames | | 0 | |
| | Auto-Negotiation | | | Broadcast Frames | | 0 | |
| | Status | | | Multicast Frames | | ō | |
| | Speed 10000 Mbps | | | Control Frames | | 0 | |
| | Duplex Mode Full Duplex | | | Pause Frames | | 0 | |
| | | | | Wrong Opcode Frames | | 0 | |
| | Flow Control Enabled | | ~ | Out of Bound Frames | | U | |
| | Stream Config | | | Stream Statistics | | | |
| | | | ^ | di Channa Mana | Che No. No. | Value Dr. 400 | Descent D1 v |
| | # Stream Name Name | ie | | 1 Stream1 | Tx Bytes | Volue F 1- /F 2 | 0 |
| | 2 Stream2 S | tream Definition WAN Emulation Parameters | | 2 Stream2 | 10 Sec Average Throughput | | 0 |
| | 3 Stream3 | | = | 3 Stream3 | 1 Min Average Throughput | | 0 |
| | 4 Stream4 | P1 -> P2 | | 4 Sucant | to him Average miloographic | | 0 |
| | | Mode | | | Rx Frames | | 0 |
| | | Packet Mode | | | TX Frames | | 0 |
| | l i i i i i i i i i i i i i i i i i i i | | | | Dropped Packets (Bandwidth C | | 0 |
| | | MAC VLAN MPLS VIP VUDP | | | Dropped Packets (Packet Loss) | | 0 |
| | | | | | Dual acts of Decision | | 0 |
| | | Laver (Click to edit) Laver Summary | | | Dupicated Packets | | 0 |
| | | Layer (Click to edit) Layer Summary MAC XX-XX-XX-XX-XX-XX-XX-XX-XX-XX-XX-XX-XX- | | | Reordered Packets | | 0 |

- On launch of **IPNetSimTM 10G** application, a default configuration file is automatically loaded with the pre-configured settings.
- For 10G Optical Interface Type, plug-in SFP Transceivers to the optical ports and connect LC optical cable from 10G Port 1 & 10G Port 2.

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- Verify the **Green LEDs** lit on both ports indicating that the Link Status is UP (refer to figure). If the LED shows red (refer to the figure), then link is down.
- To perform further tests, refer to IPNetSim[™] 10G-IPN504 Quick Verification Guide.



Troubleshoot

On Launching IPNetSim[™] 10G, if you get the following error message, troubleshoot using the steps below:



- Ensure that the Power Adapter is connected to the IPNetSim[™] appliance and to the AC Power on the strip or Wall. Ensure that the Power Strip is ON.
- Make sure that IPNetSim[™] 10G is launched in Administrator Mode. Follow the Quick Checkout section explained above, and make sure that the application is launched in Administrator mode (Right-Click and select "**Run as Administrator**").
- Press **Reset CPU** button manually (available on the front panel of the device) for no display or other related problems.
- For any further queries, please contact GL Communications Inc at <u>info@gl.com</u>.