

GPL-1200PoE

Powerline Ethernet Adapter

User Manual



Preface

This manual provides information related to the installation and operation of this device. The individual reading this manual is presumed to have a basic understanding of telecommunications terminology and concepts.

If you find the product to be inoperable or malfunctioning, please contact technical support for immediate service by email at support@nexuslinksusa.com

For product update, new product release, manual revision, or software upgrades, please visit our website at <https://nexuslinkusa.com>

Important Safety Instructions

With reference to unpacking, installation, use, and maintenance of your electronic device, the following basic guidelines are recommended:

- Do not use or install this product near water, to avoid fire or shock hazard. For example, near a bathtub, kitchen sink or laundry tub, or near a swimming pool. Also, do not expose the equipment to rain or damp areas (e.g. a wet basement).
- To safeguard the equipment against overheating, make sure that all openings in the unit that offer exposure to air are not blocked.
- Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning. Also, do not use the telephone to report a gas leak in the vicinity of the leak.



WARNING

- Disconnect the Ethernet Adapter from the power source before servicing.

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Protect Our Environment



This symbol indicates that when the equipment has reached the end of its useful life, it must be taken to a recycling centre and processed separate from domestic waste.

The cardboard box, the plastic contained in the packaging, and the parts that make up this Ethernet Adapter can be recycled in accordance with regionally established regulations. Never dispose of this electronic equipment along with your household waste; you may be subject to penalties or sanctions under the law. Instead, please be responsible and ask for disposal instructions from your local government.


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Chapter 1 Product Information

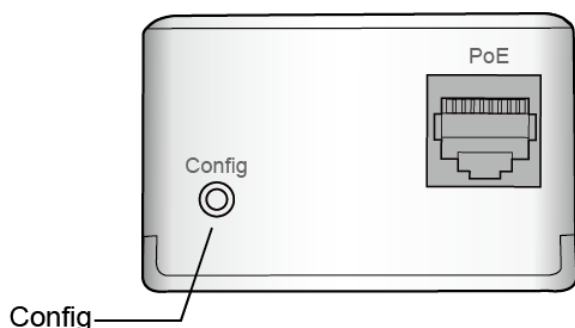
1.1 Front Panel and LED indicators



LED	COLOR	MODE	Description
Coverage 	Green	On	The current connection (line rate) is greater than 40 Mbps
	Orange	On	The current connection (line rate) is greater than 20 Mbps and less than 40 Mbps
	Red	On	The current connection (line rate) is between 1 and 20 Mbps per second)
		Off	No PLC connection exists
		Blink	Adapter in power saving mode (blinks once every 5 seconds)
Ethernet	Green	On	LAN connection established
		Off	LAN connection is not established

		Blink	Data transmitting/receiving
Security 	Green	On	Node is secure (it has either received or generated network keys)
		Off	Node is not secure, it has neither received nor generated network key parameters (domain name and encryption key)
		Blink	Node is in configuration mode (able to exchange network keys)
PoE	Green	On	PoE Mode – Port "ON"
		Off	PoE Mode – Port "OFF"
		Blink	PoE Mode – Over-load or short

1.2 Bottom Panel



Item Name	Description
PoE	<ul style="list-style-type: none"> Local Area Network (LAN) port with 10/100 Mbps and PoE
Config Button	<ul style="list-style-type: none"> Press more than 2 seconds ("Security" LED starts slow blinking) and released: the "One Button Security Setup" (OBUS) procedure is started and configuration period is open. Press more than 5 seconds ("Security" LED starts quick blinking) and released: security settings are set to default values. Press more than 10 seconds ("Security" LED switches off) and released: a factory reset is performed.

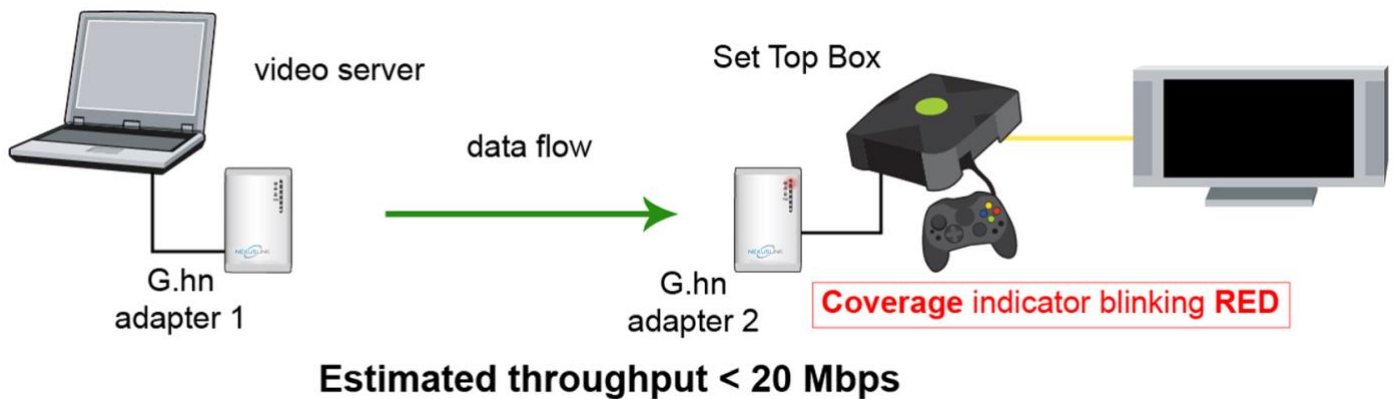
1.3 How to understand the COVERAGE LED colors

The COVERAGE LED displays quality of the network and provides important information that will provide solutions to common questions, such as why a High Definition (HD) movie is not showing or shows with pixels. The COVERAGE LED indicator will vary its color depending on the estimated speed of the Powerline connection. The speed is measured in Megabits Per Second (Mbps).

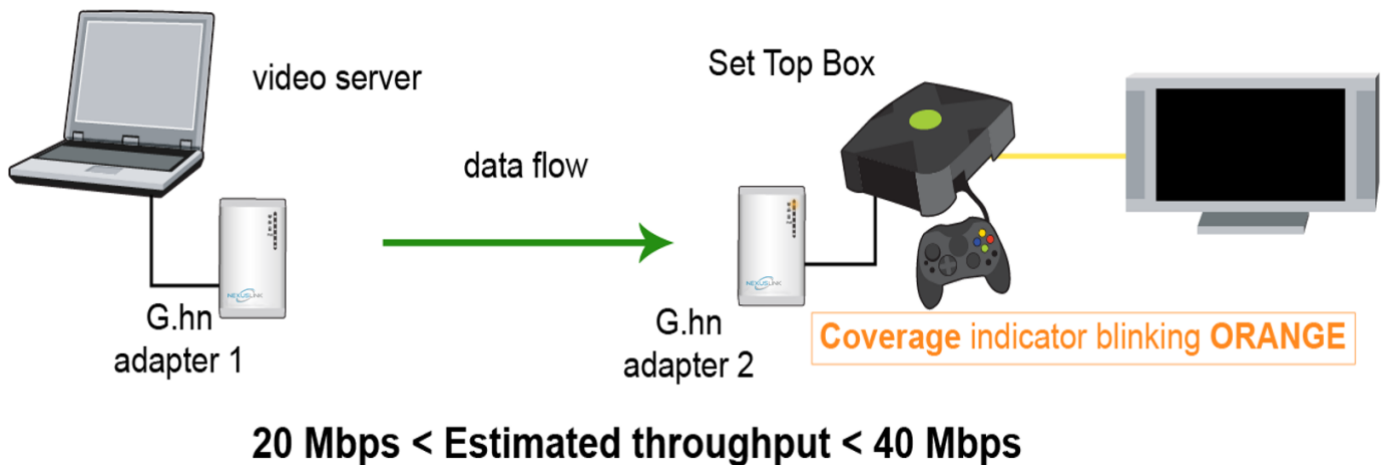
Color	Information
RED	The current connection has standard quality, normal Internet activities ex. 20Mbps are possible but the Powerline is unable to transmit either a Standard Movie or High Definition (HD) Movie.
ORANGE	The current connection has good quality and Internet activities ex. greater than 20Mbps and less than 40Mbps to transmit Standard Movie and HD Movie.
GREEN	The current connection has excellent quality and Internet activities ex. greater than 40Mbps to transmit multiple Standard Movies and HD Movies.

1.4 Point-to-Point Network

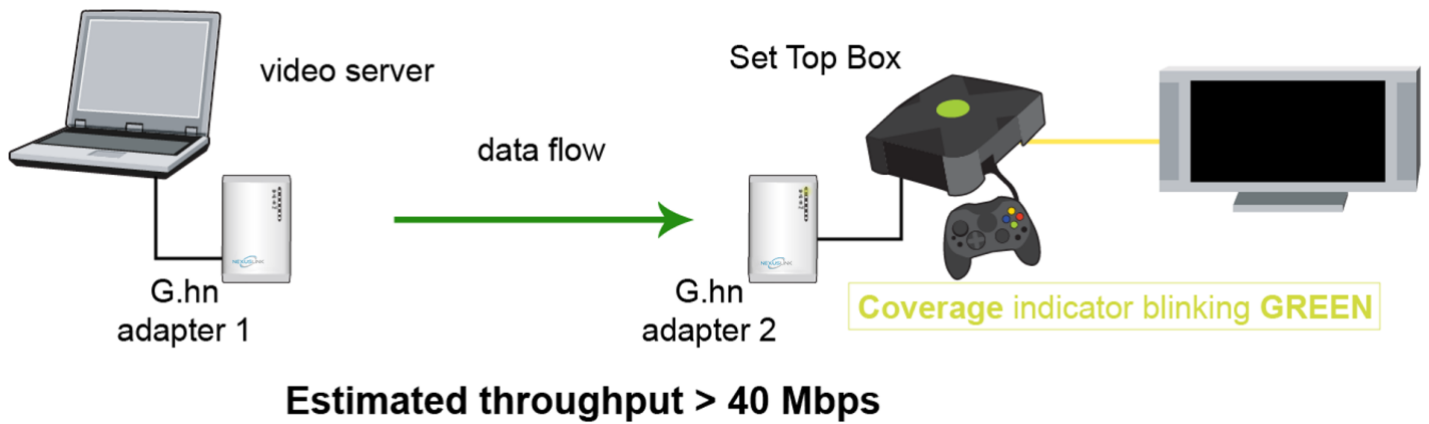
- CASE 1:** Estimated throughput is less than 20 Mbps. The PLC channel is not able to transmit an SDTV channel. The COVERAGE LED will be RED as shown in the following figure:



- CASE 2:** Estimated throughput is greater than 20 Mbps but less than 40 Mbps. The PLC channel is able to transmit an SDTV channel, but not two SDTV channels simultaneously or one HDTV channel. The COVERAGE LED will be ORANGE as shown in the following figure:



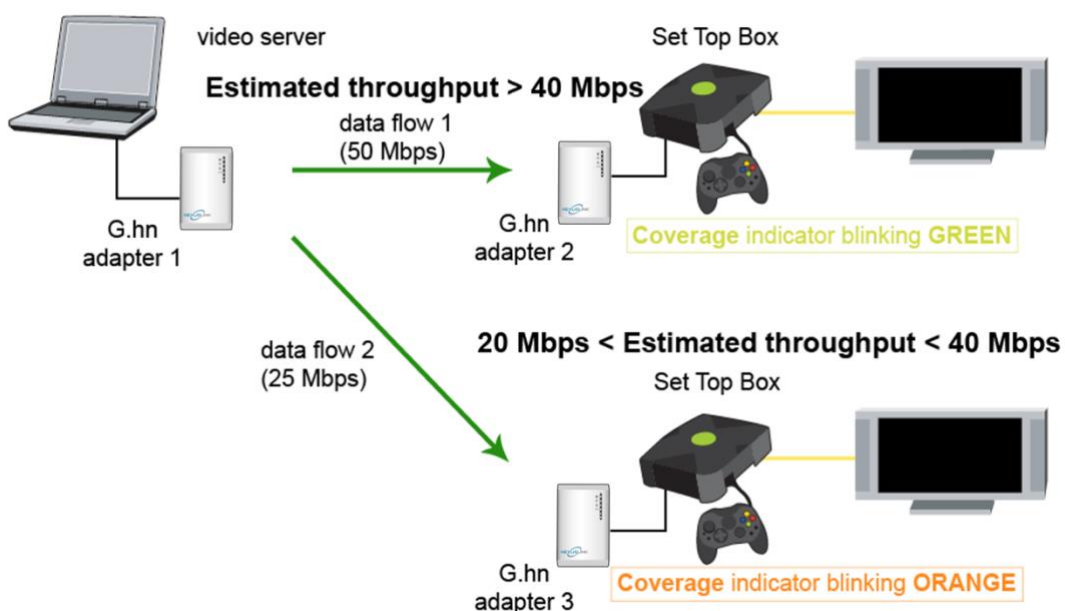
- CASE 3:** Estimated throughput is greater than 40 Mbps. The PLC channel is able to play at least two SDTV channels or 1 HDTV. The COVERAGE LED will be **GREEN** as shown here:



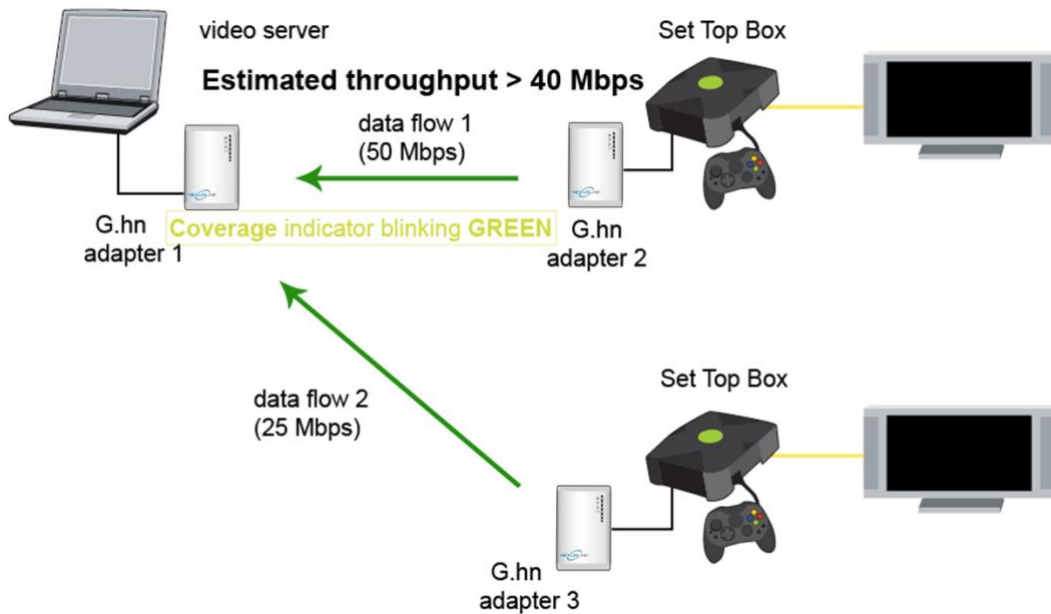
1.5 Point to Multipoint Network

In the case where the PLC network is composed of three or more adapters, similar situations could arise as with a point-to-point network.

- CASE 1:** The COVERAGE LED in G.hn adapter 2 and G.hn adapter 3 will show the estimated level of the PLC link receiving from G.hn adapter 1.



- CASE 2:** The COVERAGE LED in G.hn adapter 1 will show the estimated level of the PLC link from which it is receiving the most amount of traffic at any given time. For example, if G.hn adapter 1 is receiving traffic at 50Mbps from G.hn adapter 2 and is receiving 25Mbps from G.hn adapter 3, the COVERAGE LED will show the level with reference to the G.hn adapter 2 link, as shown in the following figure.



Chapter 2 Log In Procedure

2.1 Configure STATIC IP MODE

In static IP mode, you assign IP settings to your PC manually.

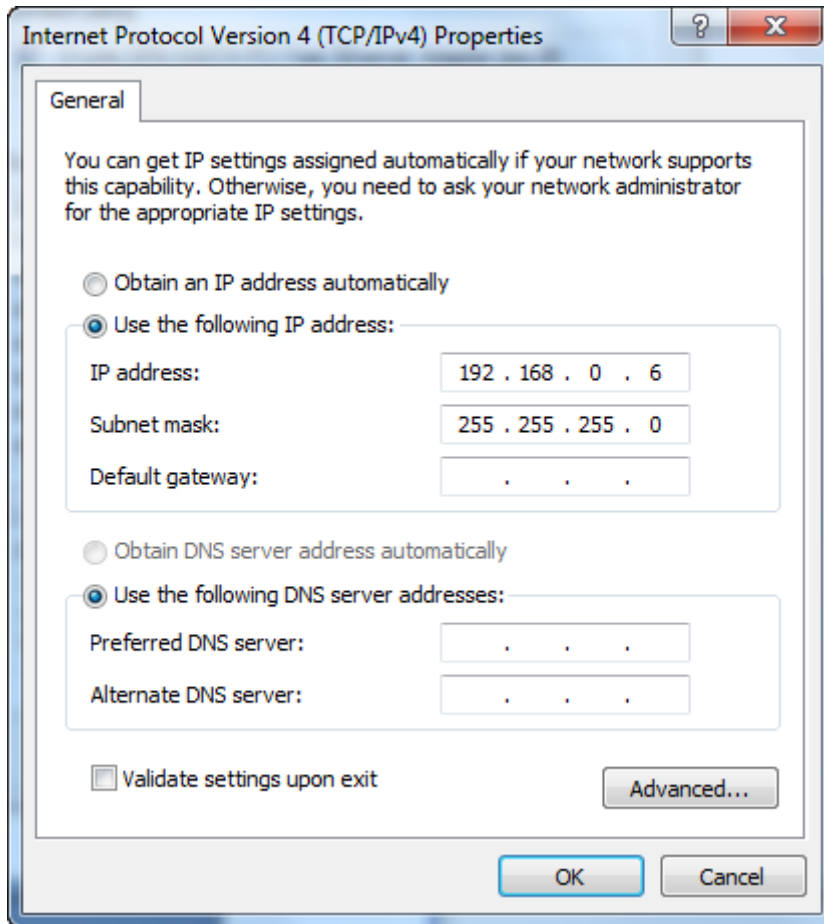
Follow these steps to configure your PC IP address to use subnet 192.168.0.x.

NOTE: The following procedure assumes you are running Windows XP. However, the general steps involved are similar for most operating systems (OS). Check your OS support documentation for further details.

STEP 1: From the Network Connections window, open Local Area Connection (*You may also access this screen by double-clicking the Local Area Connection icon on your taskbar*). Click the **Properties** button.

STEP 2: Select Internet Protocol (TCP/IP) **and click the** Properties button.

STEP 3: Change the IP address to the domain of 192.168.0.x (5<x<255) with subnet mask of 255.255.255.0. The screen should now display as below.



STEP 4: Click **OK** to submit these settings.

2.2 Logging In

Perform the following steps to login to the web user interface.

STEP 1: Start the Internet browser and enter the default IP address for the device in the Web address field. For example, if the default IP address is 192.168.0.5, type <http://192.168.0.5>

STEP 2: A dialog box will appear, such as the one below. Input the default Authentication Password.

Authentication Password: **admin**



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GPL-1200PoE Web Configuration

Authentication

This unit is password protected. Please enter the correct password to access the web pages

•Password

Ok Cancel

Factory Reset*:

•Password

*Warning! Current configuration will be lost


Ok Cancel

Click **OK** to continue.

Note:

The Factory Reset password is: **betera**

Chapter 3 G.hn Interface



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Basic settings

- MAC address 00:13:9d:00:05:00
- Device ID 0
- Domain Name
- Force node Type AUTOMATIC ▾
- Node type* END_POINT

* Node type change can take some time, please refresh page to update state

- G.hn profile PLC 50MHz with MIMO ▾

Neighboring Domain Interference Mitigation (NDIM)

- NDIM mode AUTOMATIC ▾
- Domain ID (DOD)

Encryption Configuration

- Encryption is DISABLED
- Pairing password

- Automatic configuration*:

* Pairing can take some time, please refresh page to update state

Available Connections

Device ID	MAC Address	Phy Tx (Mbps)	Phy Rx (Mbps)
<i>Empty list</i>			

3.1 Basic Configuration

- **MAC Address** Displays the MAC address of the device.
- **Device ID** Device ID of this node.
- **Domain Name** string of all nodes in the network.
- **Force node Type** force the modem to have a particular role (END POINT or DOMAIN MASTER)
- **G.hn profile** of all nodes in the network: selecting which G.hn profile must be applied to the network (PLC 50MHz, PLC 50MHz with MIMO, PLC 100MHz, COAX 100MHz and PHONE 100MHz).

3.2 NDIM Configuration

- **NDIM mode** set to Automatic for enabling automatic DOD selection functionality and set to Manual for manual configuration of DOD.
- **Domain ID (DOD)** manually set the DOD number from 1 to 15 to use a different preamble seed than the default 13.

3.3 Encryption Configuration

- **Pairing Password** used for authentication. Write a custom password to manually create a secure domain.

Available Connections

- In this tab table, all the available **G.hn connections** are presented. Remote node DID and MAC address, transmission and reception physical speeds.

Chapter 4 IP Interface

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IPv4 configuration*

DHCP enabled NO ▾

IPv4 address / netmask /

Default Gateway

DNS

Additional address #1 /

Additional address #2 /

*All changes except the DNS server will have effect after system boot

IPv6 configuration*

DHCP enabled NO ▾

IPv6 address / prefix

Default Gateway

DNS

Additional address #1

Additional address #2

Additional address #3

Additional address #4

IPv6 link-local address

IPv6 SLAAC address

*All changes except the DNS server will have effect after system boot

NTPv4/v6 client configuration

NTPv4/v6 client enabled YES ▾

Resynchronization time

NTP IPv4/v6 address

4.1 IP config

In the **IP configuration** tab of one G.hn node, the IPv4 and IPv6 settings can be read and changed.

IPv4 subsection:

- **DHCPv4 enabled:** in the case of choosing "NO" IP configuration in the following parameters, the IPv4 Address, Subnet Mask, Default Gateway and DNS should be configured; fill these fields in. In the case of choosing "YES" they will be filled automatically when configuration is received from the DHCPv4 server.
- **IPv4 address/netmask:** IPv4 address / netmask of this device.
- **Default Gateway:** IPv4 gateway to connect the device to other LAN segments.
- **DNS:** Domain Name Server IP (IPV4).
- **Additional address #1/2:** additional fixed IPv4 addresses that will always be configured at boot time.


IPv6 subsection:

- **DCHPv6 enabled:** : in the case of choosing "NO" IP configuration in the following parameters, the IPv6 Address, prefix, Default Gateway and DNS should be configured; fill these fields in. In the case of choosing "YES" they will be filled automatically when configuration is received from the DHCPv6 server.
- **IPv6 Address / prefix:** IPv6 address / prefix of the device to read the node's DHCPv6 address in case the DHCPv6 is enabled.
- **Default Gateway:** IPv6 gateway to connect the node to other LAN segments.
- **DNS:** Domain Name Server IP (IPV6).
- **Additional address #1/2/3/4:** additional fixed IPv6 addresses that will always be configured at boot time.
- **IPv6 Link-Local Address:** to read the node's Link Local address.
- **IPv6 SLAAC address:** IPv6 address, automatically obtained by means of the SLAAC mechanism.

NTPv4/v6 subsection:

- **NTPv4/v6 client enabled:** Enable/disable NTP client.
- **Resynchronization time:** Configure re-synchronization interval time in minutes.
- **NTP IPv4/v6 address:** Hostname or IP (IPv4 or IPv6) of NTP server.

Chapter 5 Ethernet Interface



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Ethernet

External Interfaces:

Interface	Speed	Duplex	Interface Type	Mode	Internal PHY	Link
ETHA	100	FULL_DUPLEX	SSMII	MAC	YES	YES
ETHB	100	FULL_DUPLEX	SSMII	MAC	YES	NO

Powersaving

- Inactivity detection mode Disabled ▼
- Inactivity time(s) 300

Ok
Cancel

The Ethernet table shows the status & Info of the Ethernet interface; including Interface, Speed, Duplex, Interface Type, Mode, Internal PHY & Link.

Powersaving

Ethernet powersaving can be disabled, enabled by Ethernet link or enabled by Ethernet activity; idle timer can be configured as well.

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Chapter 6 Device Interface

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Hardware information

- Device name: GPL-1200PoE
- Device description: NexusLink G.hn and PoE to Powerline Adapter
- Device manufacturer: NexusLink
- Serial number: 00
- MAC address: 00:13:9d:00:05:00
- HW version: 1_0

Software information

- FW version: gedw720_WorkssysEval_v1_x SPIRIT.v6_4_r398+51_cvs
- System uptime: 0 days, 0h 46m 41s

Security

- New Configuration password:

SW update

- Status: Ready: initial status
- Protocol:
- Server IPv4/v6:
- FTP User:
- FTP Password:
- OSUP Filename:

HTTP SW update

- Upgrade file: No file selected.

6.1 Hardware information

In this tab, basic information such as Serial Number, MAC Address, HW version are shown.

6.2 Software information

Shows the FW version and system uptime.

6.3 Security

The nodes in the network: to change the configuration password string from the default ("admin") to another; decided by the user.

6.4 SW update

Current loaded firmware version is shown. Any flash section can be upgraded; the first flash section should be selected and after clicking on the "**OK**" button the corresponding file should be chosen. Usually, a reboot should be performed afterwards to make sure the changes are effective.

The protocol is by FTP client or TFTP client. L2 is proprietary and is reserved for future use.

6.5 HTTP SW update

Click the Browse button to select the file. Once selected, click the **Ok** button to perform the software update.

Chapter 7 Multicast Interface

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Multicast Configuration*

•IGMP Snooping YES ▾

•MLD snooping NO ▾

*MLD and IGMP cannot be enabled at the same time

•IGMP/MLD broadcast report NO ▾

•IGMP Multicast ranges:

Minimum IP address	Maximum IP address
224 . 0 .0.0	239 . 254 .255.255
0 . 0 .0.0	0 . 0 .255.255
0 . 0 .0.0	0 . 0 .255.255
0 . 0 .0.0	0 . 0 .255.255

Ok Cancel

7.1 MCAST Configuration


In the **MCAST Configuration** tab, **IGMP snooping** and **MLD snooping** can be enabled or disabled. Also, IGMP multicast IP addresses ranges which the G.hn PLC network will sniff; can be configured.

- **IGMP Snooping:** Enable or Disable.
- **MLD Snooping:** Enable or Disable.
- **IGMP/MLD broadcast report:** set to NO for enabling reports dropping until the video source is detected, this is a recommended setting when IGMP/MLD is enabled. Set to YES for broadcasting reports until the video source is detected; this implies the multicast video stream is sent as broadcast and it is the recommended state when IGMP/MLD is disabled.

IGMP Multicast ranges: 4 multicast IP address ranges can be configured defining the minimum and maximum IP addresses of each range. Only multicast traffic within these ranges will be processed.

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Chapter 8 QoS menu



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QoS Configuration

QoS criterion Custom ▾

Type of frame Ethernet frame ▾

Packet detection 1 IPv4 ▾

Offset

Bitmask

Pattern

Packet detection 2 None ▾

Offset

Bitmask

Pattern

Packet classification

•Default prio 0 ▾

PC	Offset	Bitmask	Pattern	Priority
Rule 1	<input type="text" value="7"/>	<input type="text" value="0x00E0"/>	<input type="text" value="0x0000"/>	0 ▾
Rule 2	<input type="text" value="7"/>	<input type="text" value="0x00E0"/>	<input type="text" value="0x0020"/>	1 ▾
Rule 3	<input type="text" value="7"/>	<input type="text" value="0x00E0"/>	<input type="text" value="0x0040"/>	2 ▾
Rule 4	<input type="text" value="7"/>	<input type="text" value="0x00E0"/>	<input type="text" value="0x0060"/>	3 ▾
Rule 5	<input type="text" value="7"/>	<input type="text" value="0x00E0"/>	<input type="text" value="0x0080"/>	4 ▾
Rule 6	<input type="text" value="7"/>	<input type="text" value="0x00E0"/>	<input type="text" value="0x00A0"/>	5 ▾
Rule 7	<input type="text" value="7"/>	<input type="text" value="0x00E0"/>	<input type="text" value="0x00C0"/>	6 ▾
Rule 8	<input type="text" value="7"/>	<input type="text" value="0x00E0"/>	<input type="text" value="0x00E0"/>	7 ▾

Ok Cancel

8.1 QoS Configuration

In the **QoS** configuration tab, the packet classifier can be managed to define a QoS rule for incoming Ethernet traffic, and assign a priority to be used in the G.hn network. Press the "**Ok**" button for loading the newly configured settings:

- **QoS CRITERION:** a general criterion can be chosen among "None" (no QoS), "Custom" and "802.1p".
- **Type of Frame:** with this parameter the type of Ethernet traffic being transmitted by the G.hn network should be selected. Based on this parameter, the internal offsets in the system are adjusted. In the QoS tab, Ethernet frame offsets should be set **counting number** as they appear in the sniffer SW (for instance, the same field will be in a different position if normal Ethernet frames or 802.1Q tagged frames exist).
- **Packet detection 1:** first packet detection rule can be configured (offset, bitmask and pattern). Packets which accomplish it will be sent to the classification module.
- **Packet detection 2:** if second packet detection is also enabled, both, first and second detection criteria must be accomplished to pass packets to the classification module.
- **Packet classification:** up to 8 classification rules can be defined in this section for packets which have previously been correctly detected. For 802.1p only priorities can be managed, offset, bitmask and pattern are predefined to sniff the PCP field.
- **Default priority:** select default priority; which will be applied to non classified incoming packets. Priority 7 is the highest. Priority 0 is the lowest.

Example 1

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QoS Configuration

QoS criterion 802.1p ▾

Type of frame Ethernet frame ▾

Packet detection 1 None ▾

Offset

Bitmask

Pattern

Packet detection 2 None ▾

Offset

Bitmask

Pattern

Packet classification

•Default prio 0 ▾

PC	Offset	Bitmask	Pattern	Priority
Rule 1	<input type="text" value="0"/>	<input type="text" value="0x0000"/>	<input type="text" value="0x0000"/>	0 ▾
Rule 2	<input type="text" value="0"/>	<input type="text" value="0x0000"/>	<input type="text" value="0x0000"/>	1 ▾
Rule 3	<input type="text" value="0"/>	<input type="text" value="0x0000"/>	<input type="text" value="0x0000"/>	2 ▾
Rule 4	<input type="text" value="0"/>	<input type="text" value="0x0000"/>	<input type="text" value="0x0000"/>	3 ▾
Rule 5	<input type="text" value="0"/>	<input type="text" value="0x0000"/>	<input type="text" value="0x0000"/>	4 ▾
Rule 6	<input type="text" value="0"/>	<input type="text" value="0x0000"/>	<input type="text" value="0x0000"/>	5 ▾
Rule 7	<input type="text" value="0"/>	<input type="text" value="0x0000"/>	<input type="text" value="0x0000"/>	6 ▾
Rule 8	<input type="text" value="0"/>	<input type="text" value="0x0000"/>	<input type="text" value="0x0000"/>	7 ▾

If QoS criterion: 802.1p, all other options are grayed out, and follow the QoS rules below.

According to G.9960 specs, the priority mapping recommended by [IEEE 802.1D] subclause 7.7.3 is presented in Table III.1. for four priority queues.

PCP	Priority	Acronym	Traffic Types
1	0 (Third)	BK	Background
0	1 (lowest)	BE	Best Effort
2	2 (lowest)	EE	Excellent Effort
3	3 (Third)	CA	Critical Applications
4	4 (second)	VI	Video, < 100 ms latency and jitter
5	5 (second)	VO	Voice, < 10 ms latency and jitter
6	6 (highest)	IC	Internetnetwork Control
7	7 (highest)	NC	Network Control

In summary, the sequence of priority queue, $(7,6) > (5,4) > (3,0) > (2,1)$

Chapter 9 VLAN Interface

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VLAN Configuration

Enable VLAN feature NO ▾

Set Port as VLAN Trunk

- PLC ports YES ▾
- ETHA port YES ▾
- ETHB port YES ▾
- FW port YES ▾
- SDIO port YES ▾

Ingress/Egress tag

- ETHA VLAN tag:
- ETHB VLAN tag:
- FW VLAN tag:
- PLC VLAN tag:
- SDIO VLAN tag:


9.1 VLAN Configuration

In the **VLAN Configuration** tab of one G.hn node, a VLAN tag can be added or removed per interface. Also, removing a tag at egress per interface can be also enabled or disabled:

- **Enable VLAN feature:** Select **No** from the drop down menu to completely disable the VLAN functionality, removing all tags.
- **Set Port as VLAN Trunk.** Removing all tags at egress of a port can be configured by setting the parameter to NO or default YES keeps tags but removes the one configured in the "Ingress/Egress tag" section (if any).

- **Ingress/Egress tag:** A tag value (from 1 to 4095) per interface can be added in this section. Set value to 0 for no tagging.

Chapter 10 G.hn spectrum Interface



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Notches Configuration

Notch index	Start freq (KHz)	Stop freq (KHz)	Depth (dB)	Type
0	1800	2000	100	Regulation
1	3500	4000	100	Regulation
2	7000	7300	100	Regulation
3	10100	10150	100	Regulation
4	14000	14350	100	Regulation
5	18068	18168	100	Regulation
6	21000	21450	100	Regulation
7	24890	24990	100	Regulation
8	28000	29700	100	Regulation
9	50000	54000	100	Regulation
10	0	1807	100	Regulation
11	80000	100000	100	Regulation
12	28000	30000	26	Regulation

Add new user notch

- Index (0..9)
- Start frequency (KHz)
- Stop frequency (KHz)
- Depth (0..40dB, 100 removes notch)

Remove user notch

- Index (0..9)

10.1 Notches

In this tab a table with all configured **Notches** of selected node will be shown. The table is composed of next columns for every notch: Notch Number, Start Frequency (KHz), Stop Frequency (KHz), Depth (in dB).

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The Regulation notches are Read Only, **RO**, in the system and they can be neither removed nor modified.

To add new notches the user should fill the "**Add a new User Notch**" fields, setting Start and Stop frequencies in KHz and depth in dB of notch and then press the "**Ok**" button. They will be added in first User free position from number 0 to 9. (If successful, you can see a record in the Type column)

To remove a User Notch, the "**Remove a User Notch**" section should be used, setting notch number to be removed from 0 to 9 and pressing the "**Ok**" button.

Chapter 11 Log file Interface

The screenshot shows the NEXUSLINK GPL-1200PoE Web Configuration interface. The main window has a title bar with the NEXUSLINK logo on the left, the text "GPL-1200PoE Web Configuration" in the center, and a "Log Out" button on the right. On the left side of the main window, there is a vertical menu with links: [G.hn](#), [IP](#), [Ethernet](#), [Device](#), [Multicast](#), [QoS](#), [VLAN](#), [G.hn_spectrum](#), [Log file](#), and [Advanced](#). The "Log file" link is highlighted. The main content area displays a "Log File Configuration" dialog box with the following settings:

Setting	Value
•Enable Log File	NO
•Data capture interval (s)	1
•FTP server URL	
•FTP server login	
•FTP server password	
•Upload to server interval (min)	5

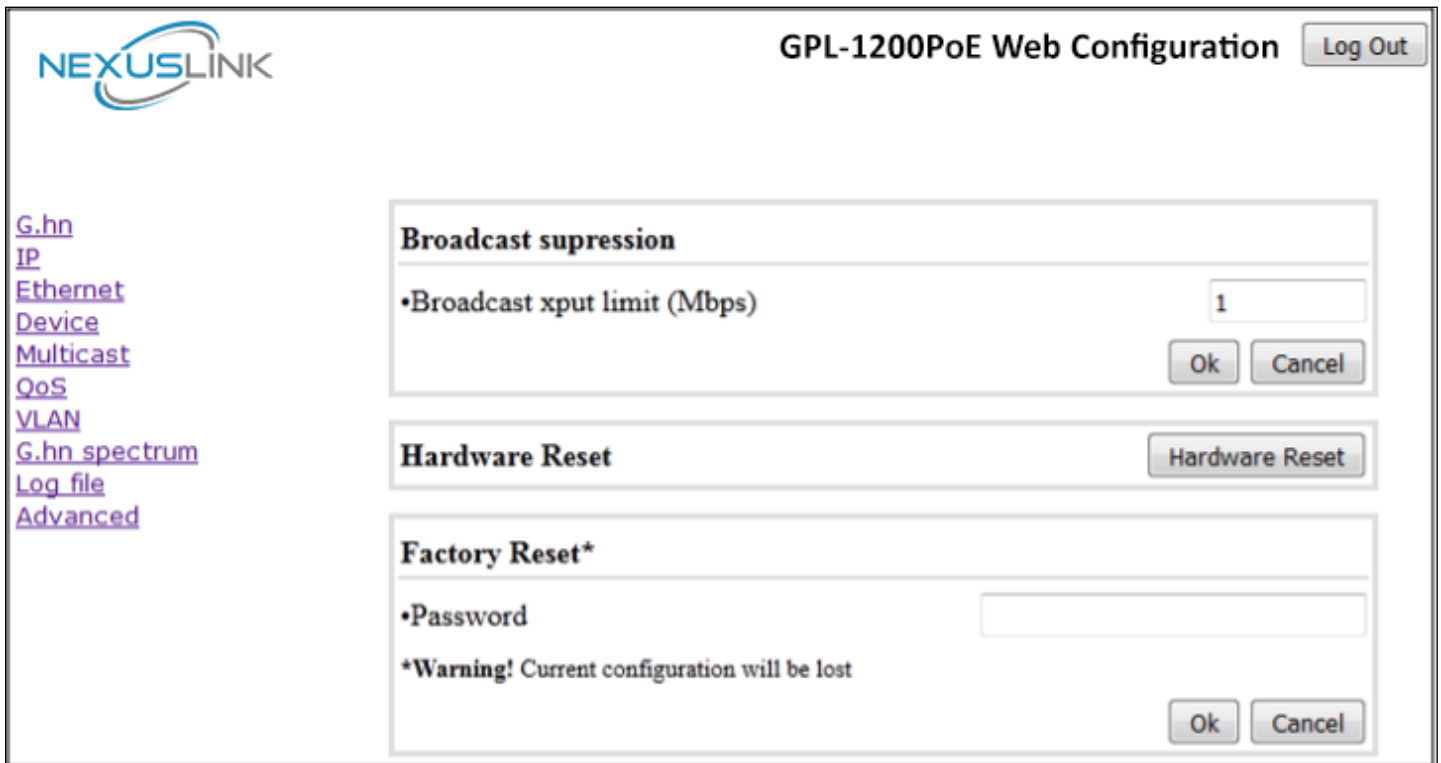
At the bottom right of the dialog box are "Ok" and "Cancel" buttons.

11.1 Log File

In the **Log File** configuration the following settings can be read, and changed by clicking on the corresponding "OK" button for the selected node:

- **Enable Log File** set to YES for enabling Log File functionality in the node and set to NO for disabling it.
- **Data Capture Interval** sets the interval of time in seconds to capture data.
- **FTP Server URL** configures the url for the remote FTP server where the files will be uploaded.
- **FTP Server Login** configures the user for the FTP server.
- **FTP Server Password** configures the password for the FTP server.
- **Upload to Server Interval** sets the interval of time in minutes to send the captured file to the remote server.

Chapter 12 Advanced Interface



The screenshot shows the NEXUSLINK GPL-1200PoE Web Configuration interface. On the left is a navigation menu with links: [G.hn](#), [IP](#), [Ethernet](#), [Device](#), [Multicast](#), [QoS](#), [VLAN](#), [G.hn_spectrum](#), [Log file](#), and [Advanced](#). The main content area is titled "GPL-1200PoE Web Configuration" and includes a "Log Out" button. It contains three configuration panels:

- Broadcast suppression:** A panel with a sub-header "Broadcast suppression" and a field "•Broadcast xput limit (Mbps)" set to "1". It has "Ok" and "Cancel" buttons.
- Hardware Reset:** A panel with a sub-header "Hardware Reset" and a "Hardware Reset" button.
- Factory Reset*:** A panel with a sub-header "Factory Reset*", a "•Password" field, a warning message "*Warning! Current configuration will be lost", and "Ok" and "Cancel" buttons.

Broadcast suppression: In this tab the broadcast suppression feature can be managed. Broadcast traffic higher than the selected value will be dropped. To disable, set the value to 0.

Hardware Reset: Click on this button to perform a reset in the node.

Factory Reset: Input the password: **betera** and click the **OK** button to perform a factory reset. The current configuration will be lost.